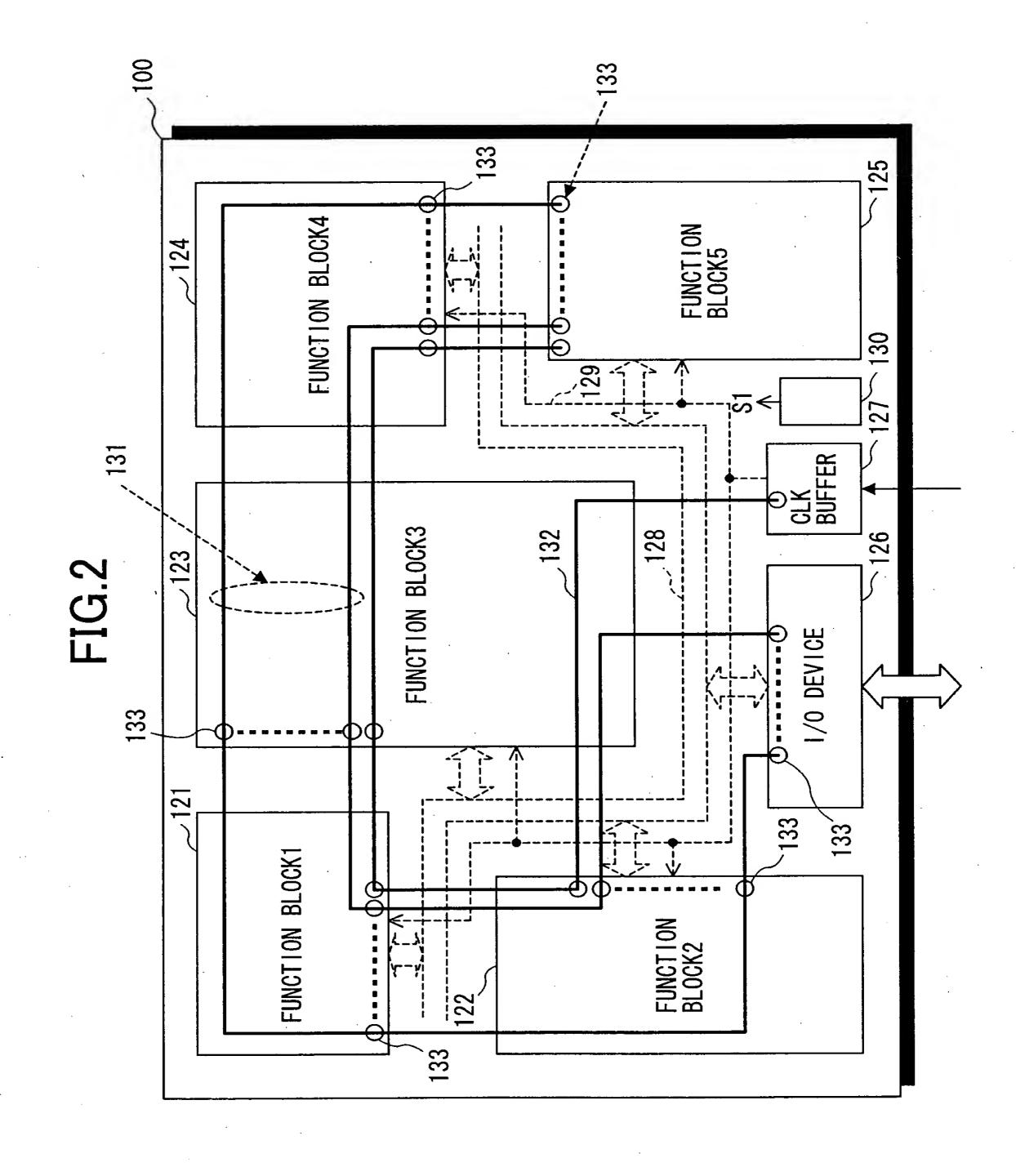
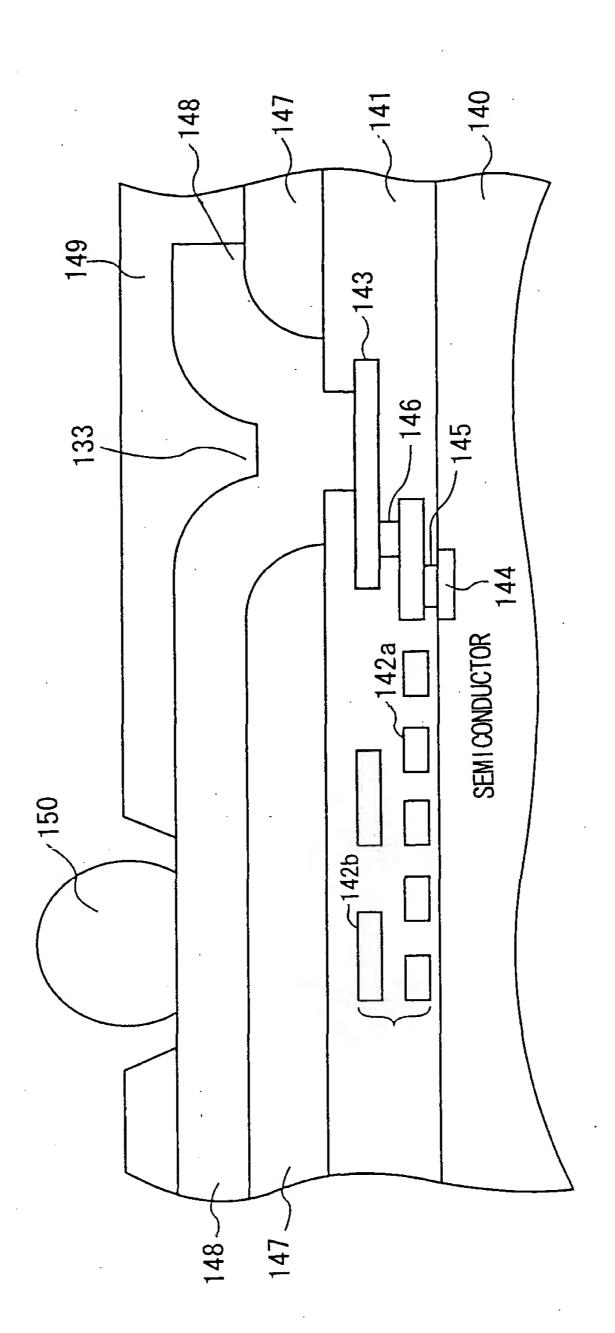
115 FUNCT 10N BLOCK5 FUNCTION BLOCK4 119 CLK BUFFER CLOCK FUNCTION BLOCK3 113 116 FIG.1 1/0 DEVICE DATA 118 FUNCTION BLOCK1 112



F16.3



TO ANOTHER FUNCTION BLOCK 7 160 159 RECEIVER UNIT .125 157 159 FUNCTION BLOCK5 158 133 128 i RMAL-SIZE BUS IS USED RGE-SIZE BUS IS USED ION BLOCK1 151 DRIVER UNIT 154 156 155 FUNCT S <u>S</u> <u>S</u> 163 162 LARGE-SIZE BUS

FIG.4

CLOCK1 -175 173 174 RECEIVER UNIT EACH FUNCTION BLOCK 133 168 CLOCK BUFFER 169 DRIVER UNIT 134A S 130B 165 163a 162a EXT CLOCK TERMINAL 164

FIG.5

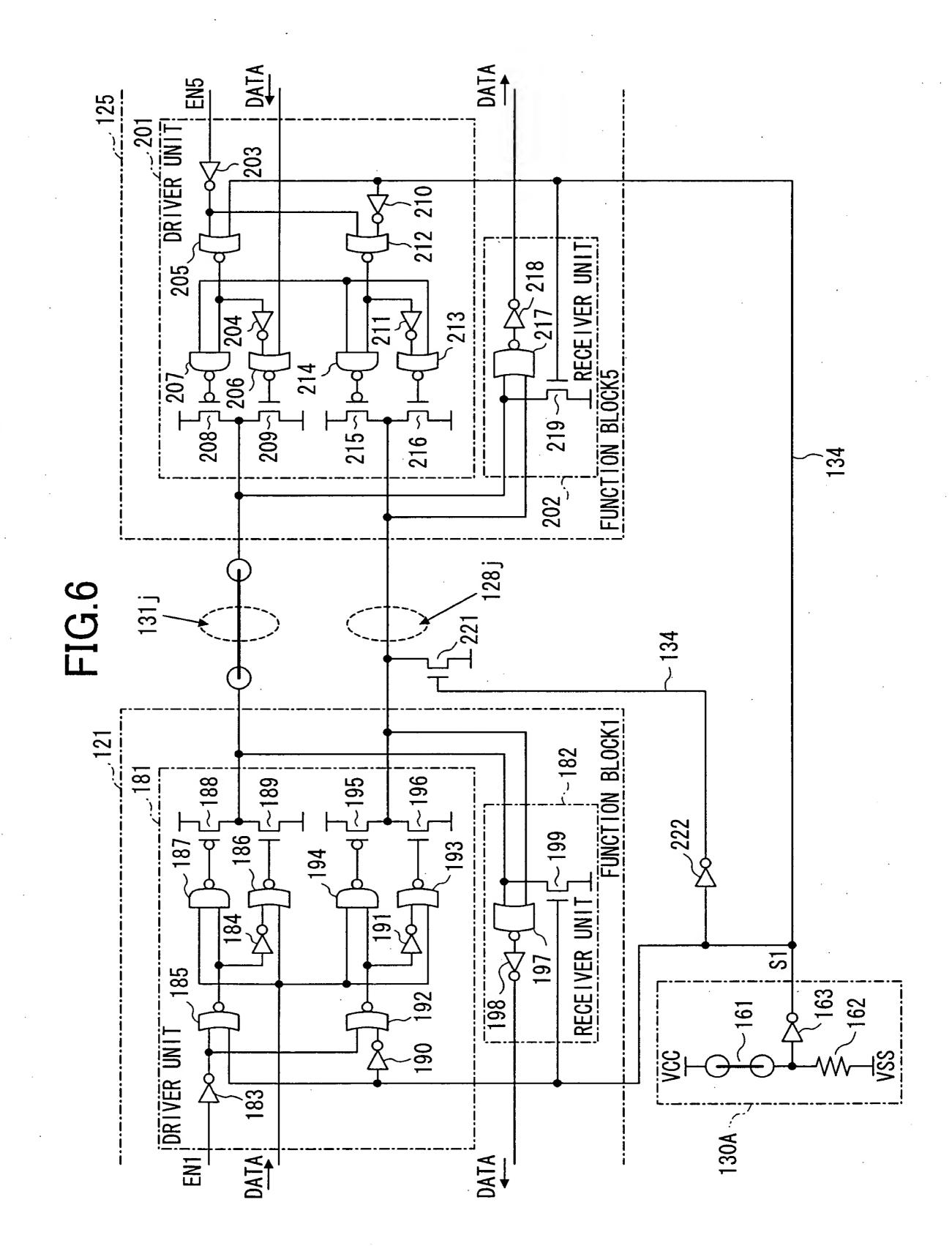


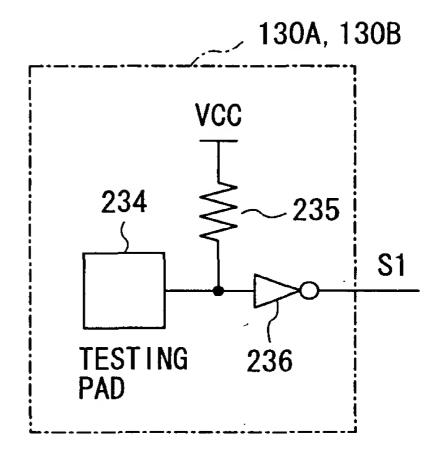
FIG.7A

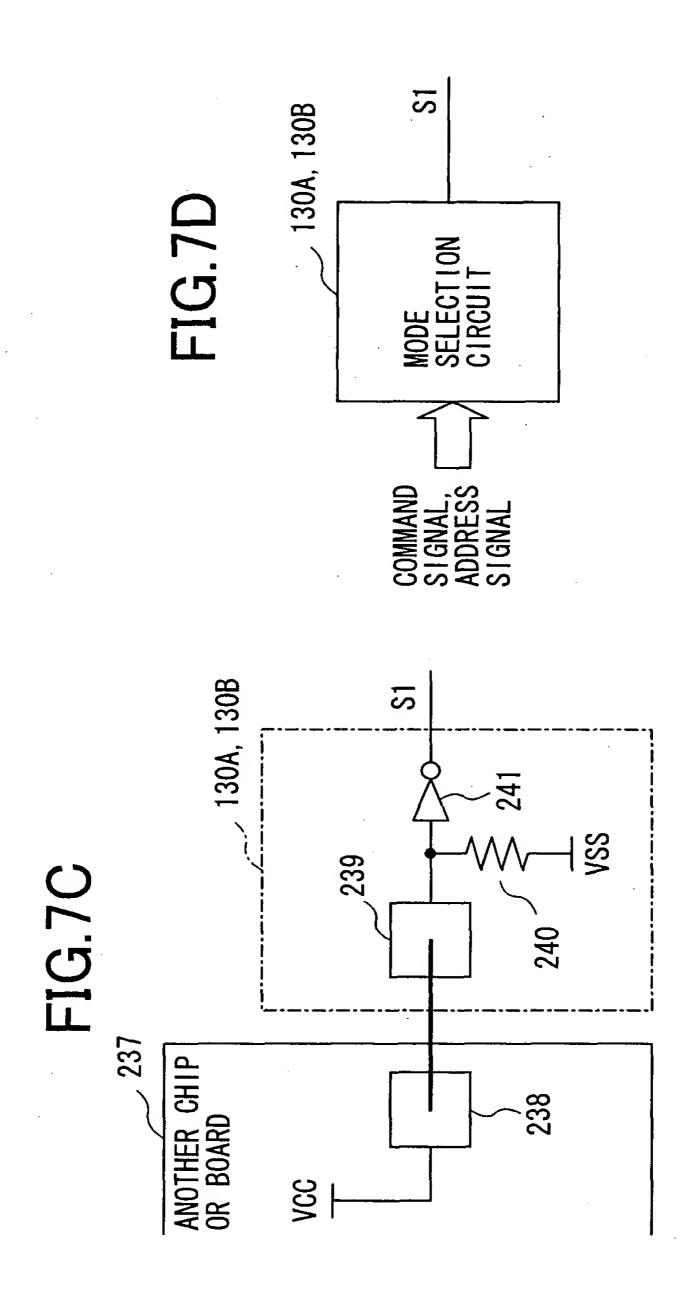
130A, 130B
VCC
231
S1
232

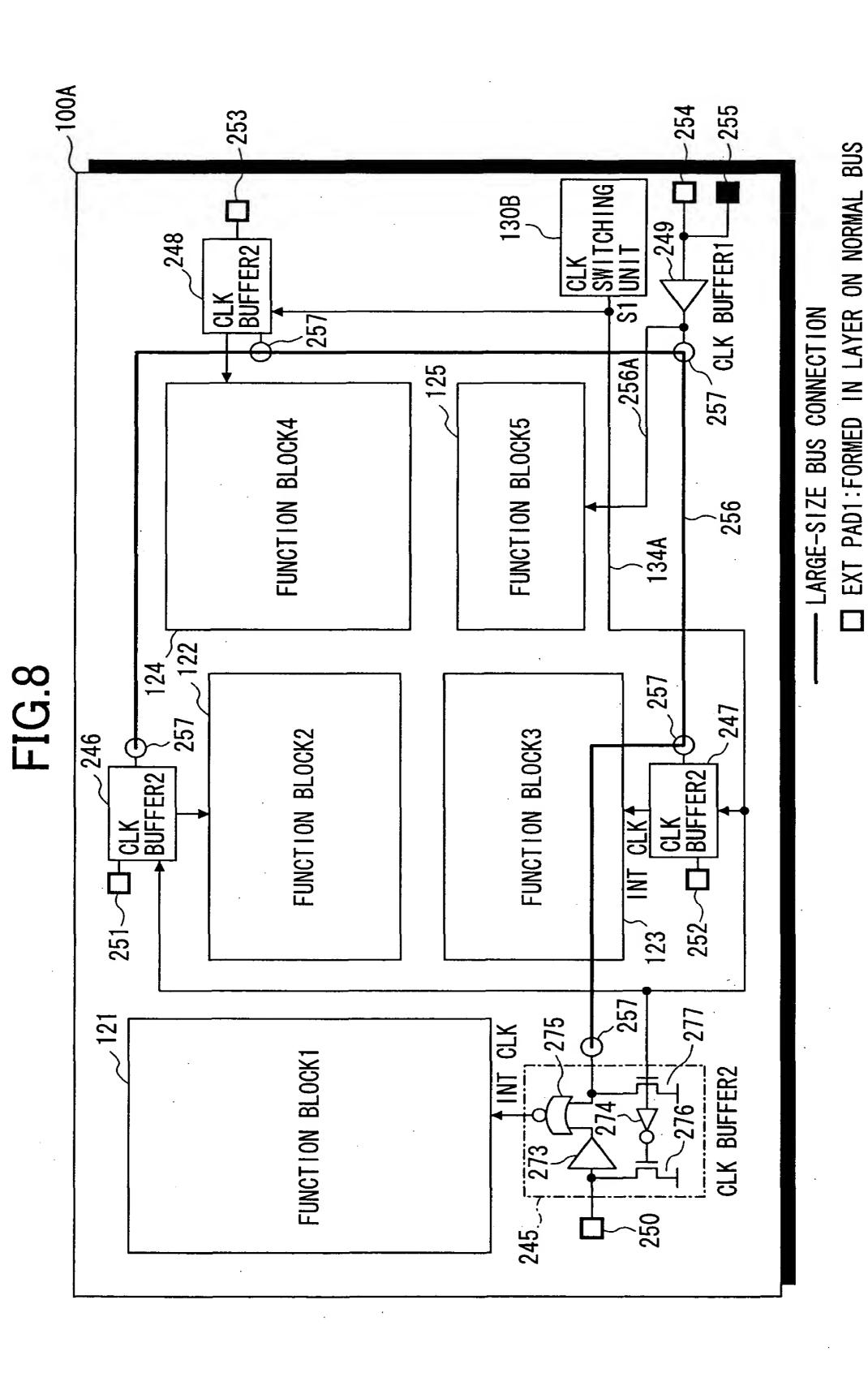
233

VSS

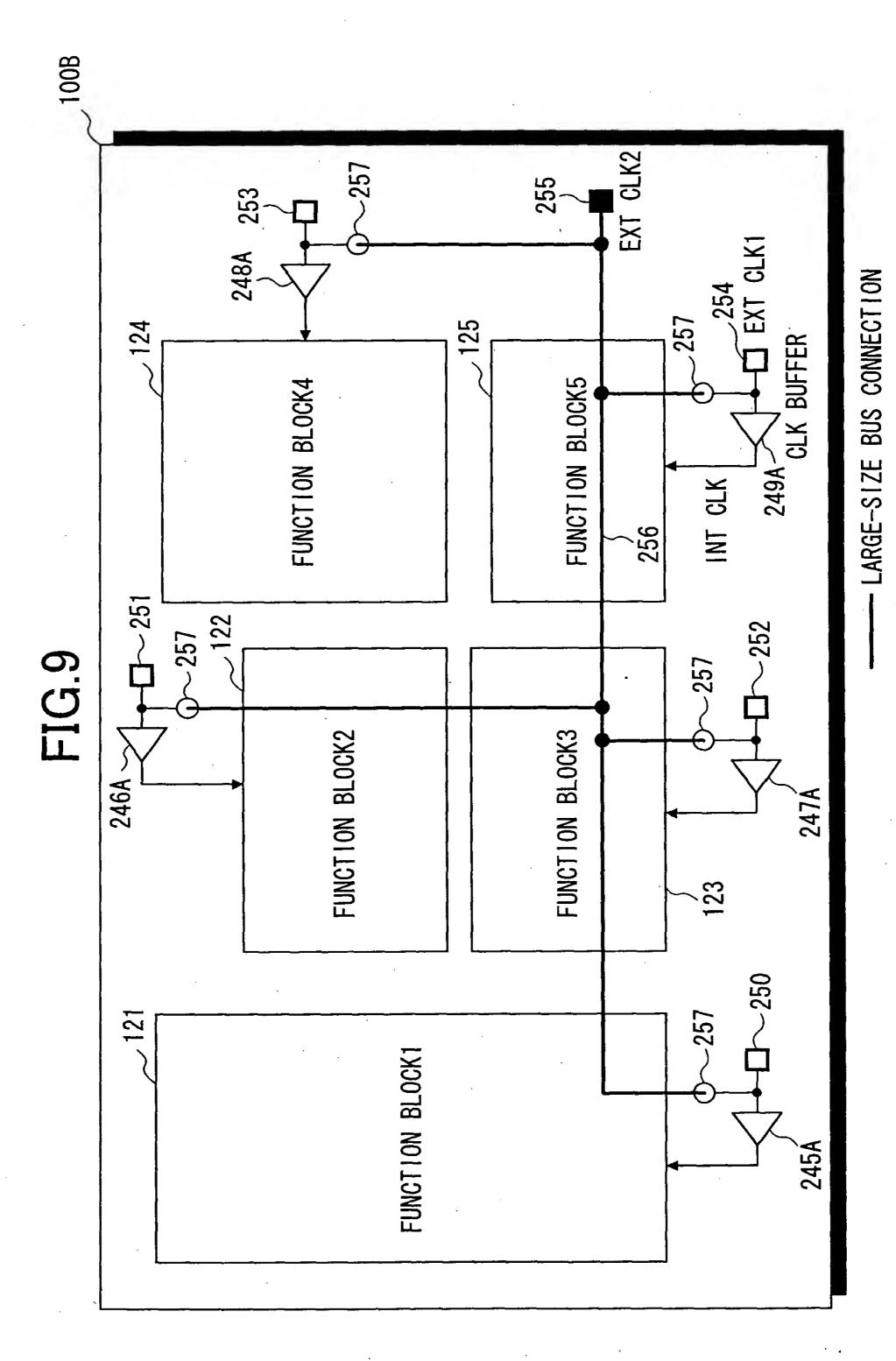
FIG.7B



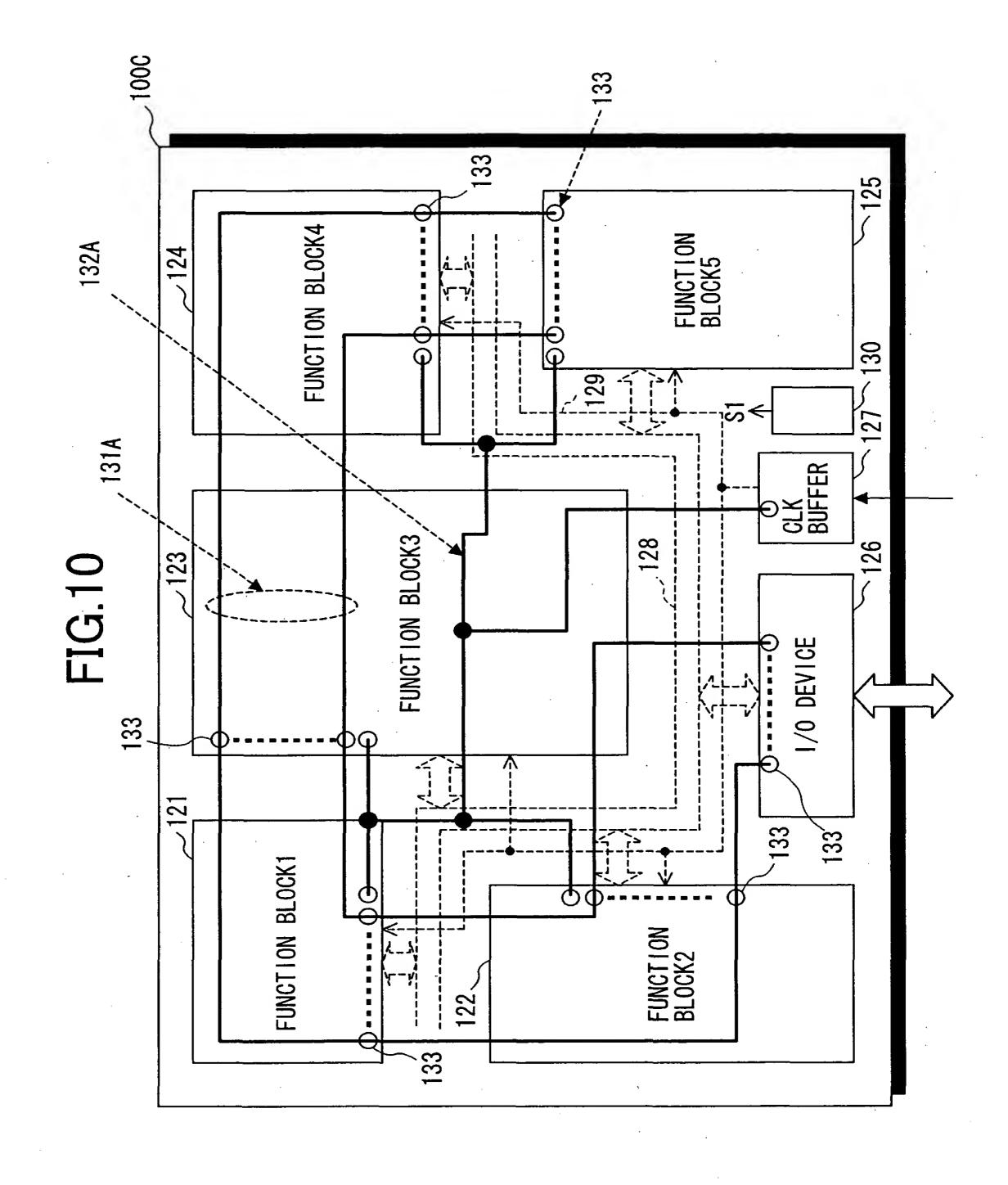


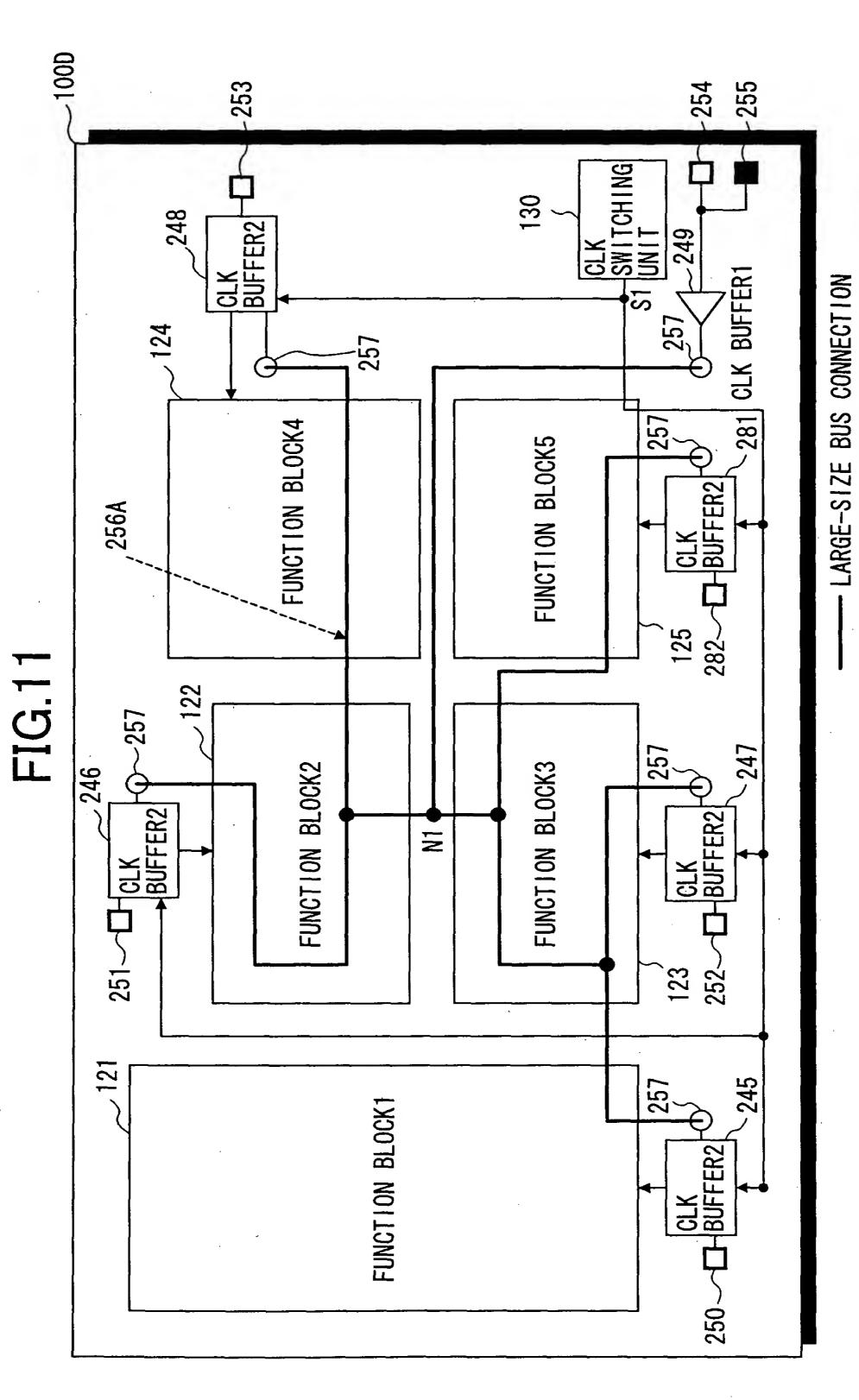


EXT PAD2:FORMED IN LAYER OF LARGE-SIZE BUS CONTACT OF LARGE-SIZE BUS AND CIRCUIT



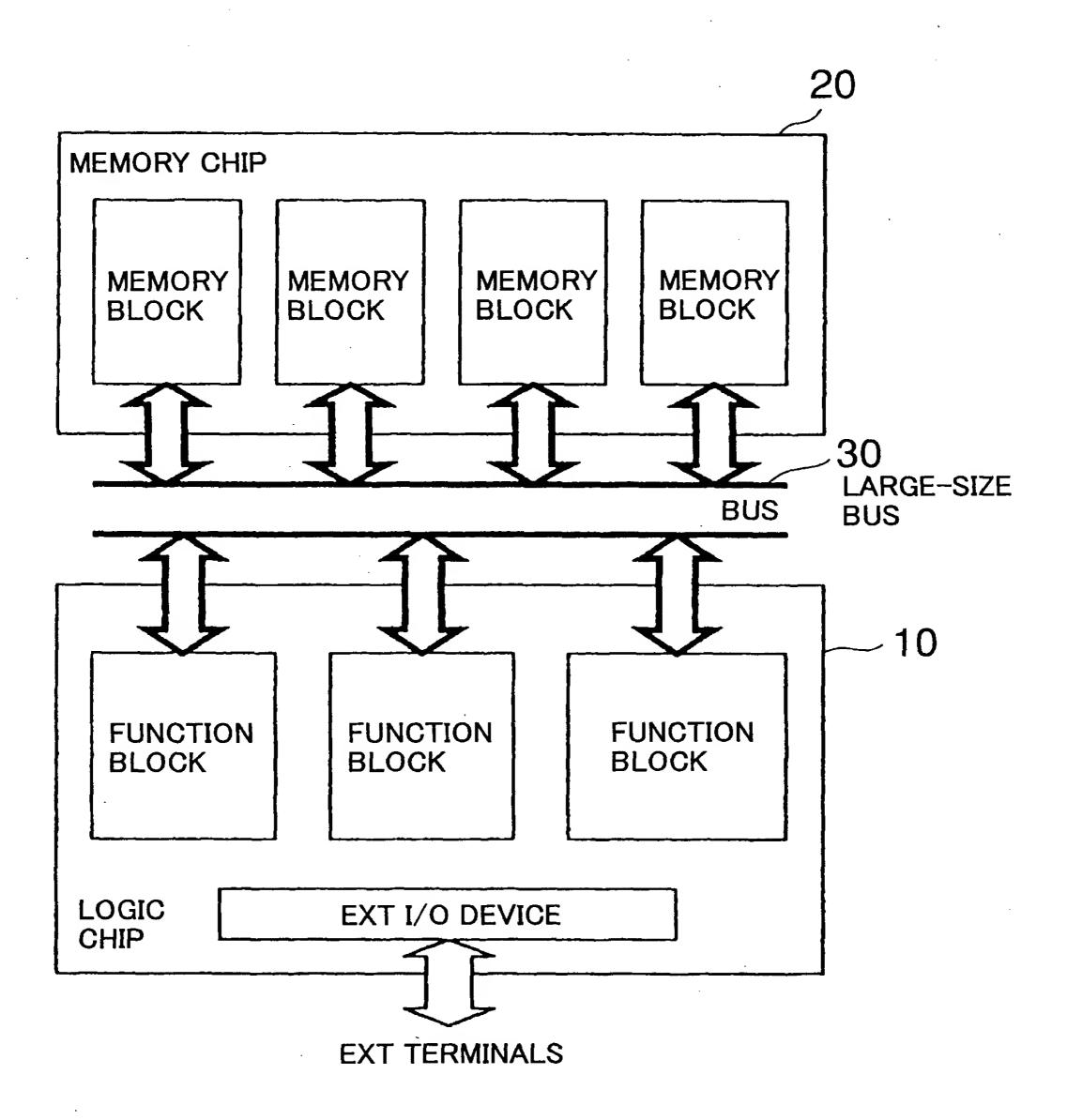
■ EXT PAD1:FORMED IN LAYER ON NORMAL BUS
■ EXT PAD2:FORMED IN LAYER OF LARGE-SIZE BUS
○ CONTACT OF LARGE-SIZE BUS AND CIRCUIT





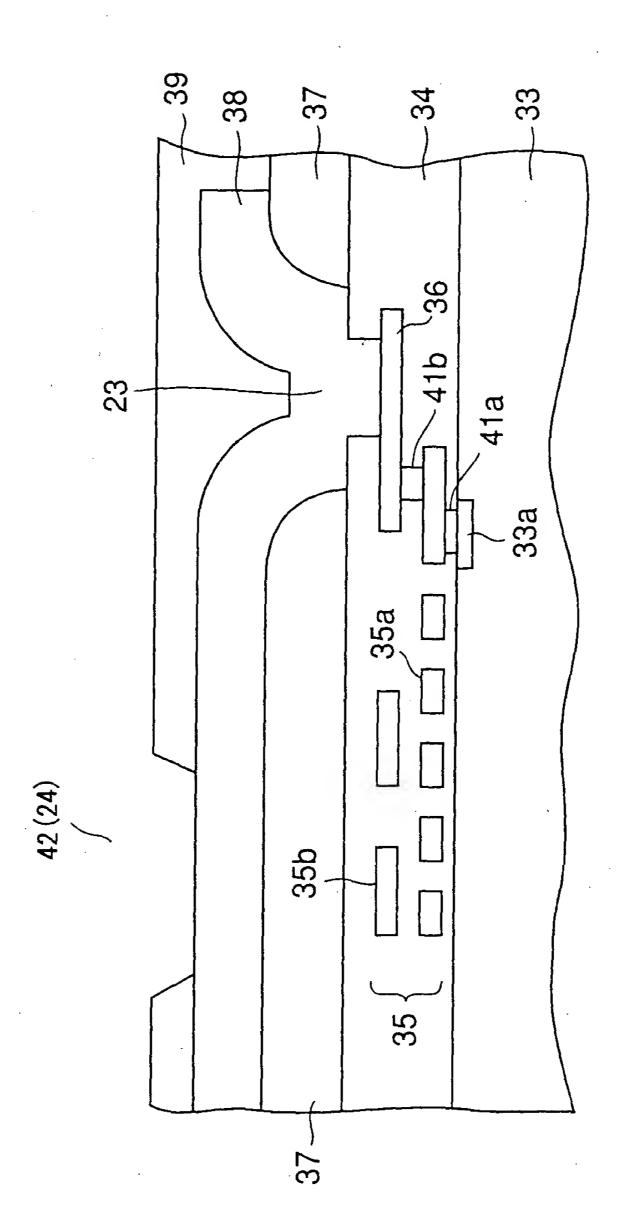
■ EXT PAD1:FORMED IN LAYER ON NORMAL BUS
 ■ EXT PAD2:FORMED IN LAYER OF LARGE—SIZE
 ○ CONTACT OF LARGE—SIZE BUS AND CIRCUIT

**FIG.12** 



OVERLAID 20A - 10A <del>2</del>6 FUNCTION BLOCK3 MEMORY BLOCK4 MEMORY BLOCK3 FIG.13 32 34 30A , 58 7 FUNCTION BLOCK2 22<sub>2</sub> | 24 | D-28 29 (DOWNSIDE CONDITION) 43-₹5 MEMORY BLOCK2 29 28 MEMOF BLOCK 23 24 FUNCTION BLOCK1 

F1G. 14



F1G. 15

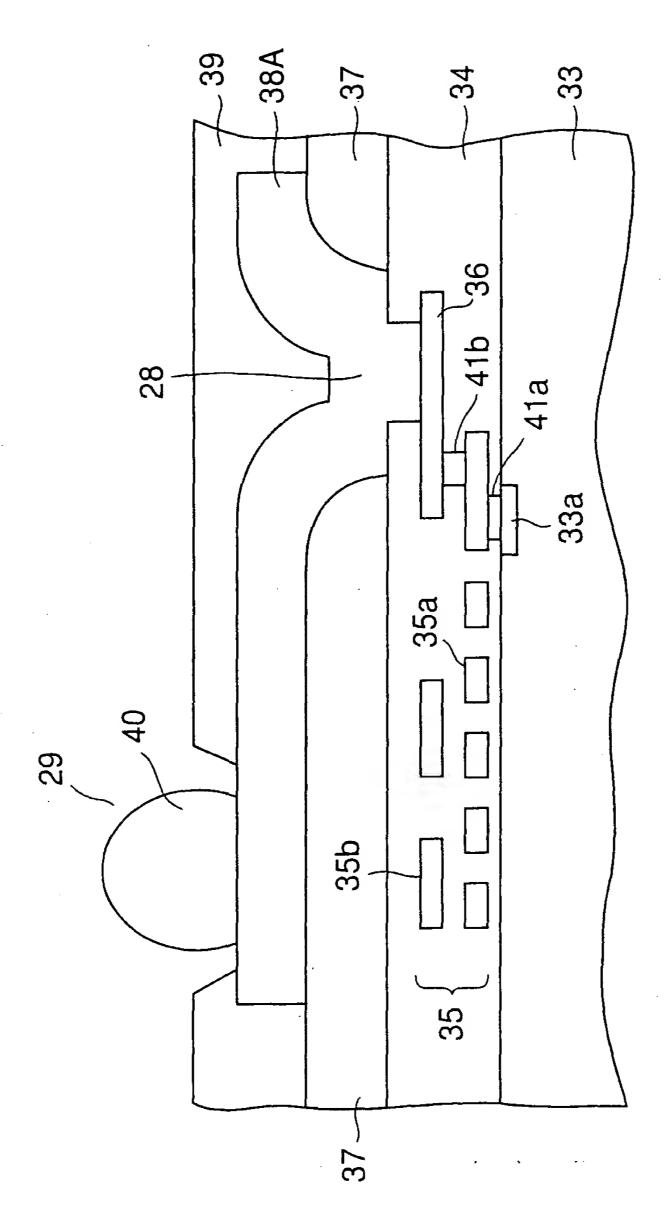
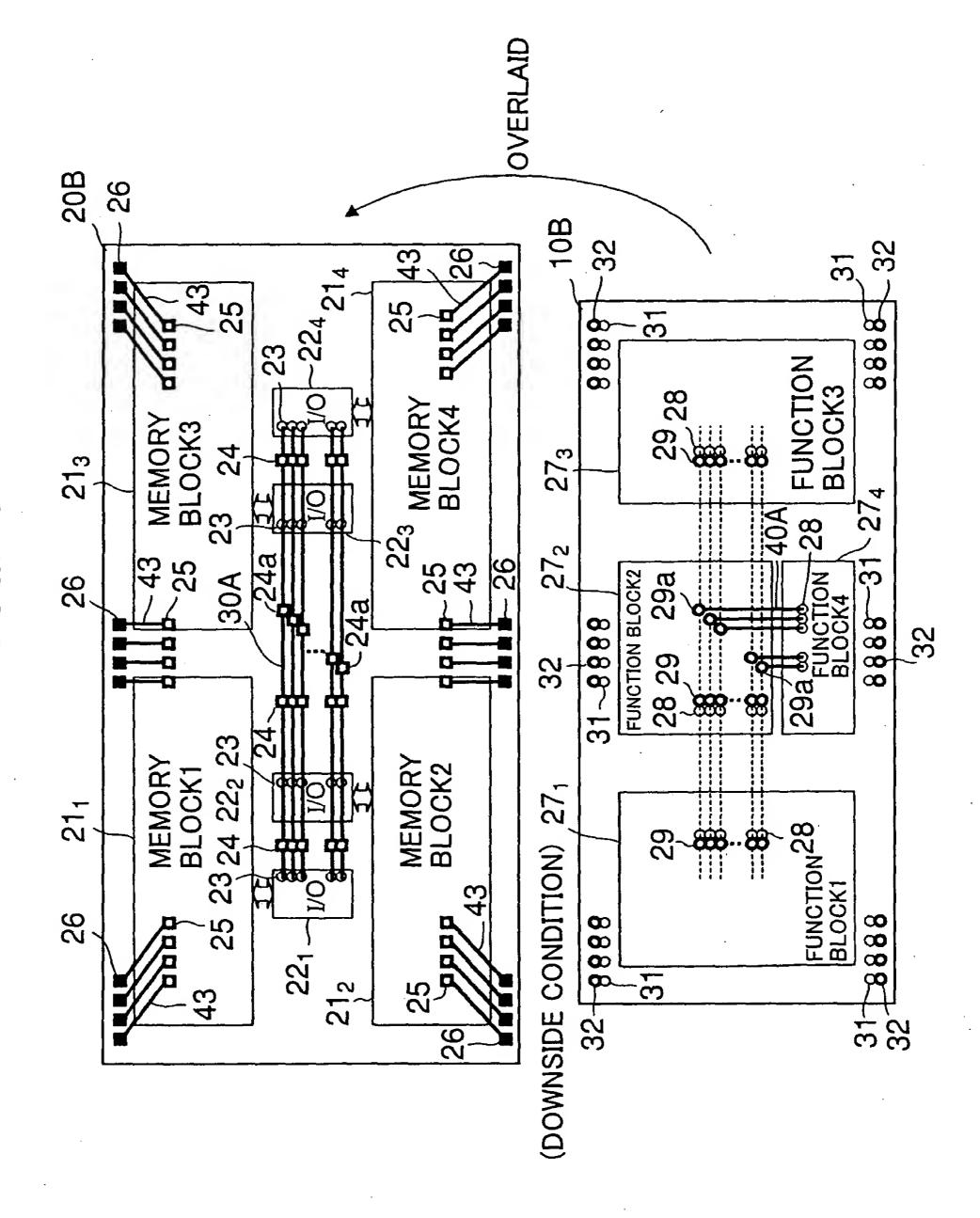


FIG. 16



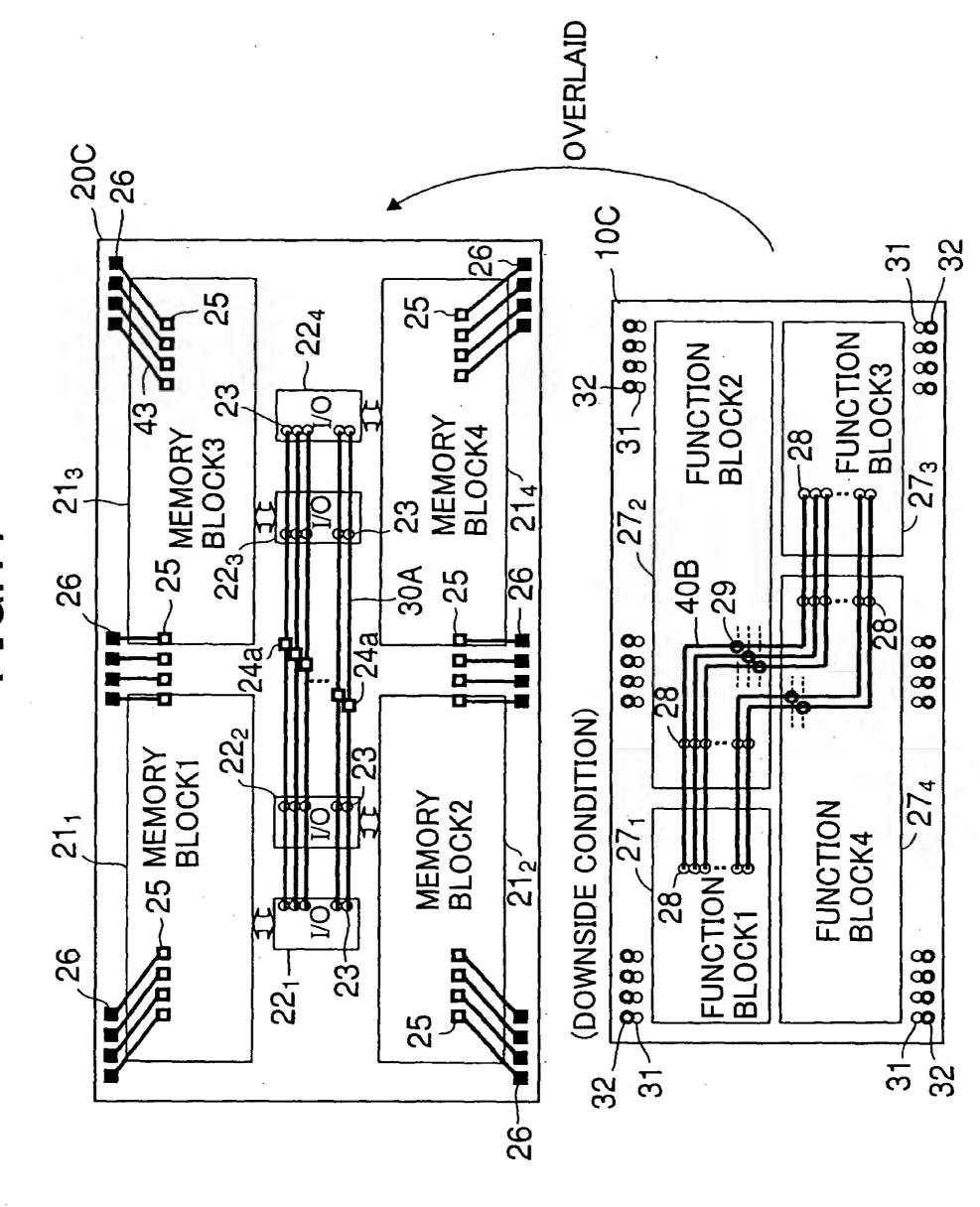
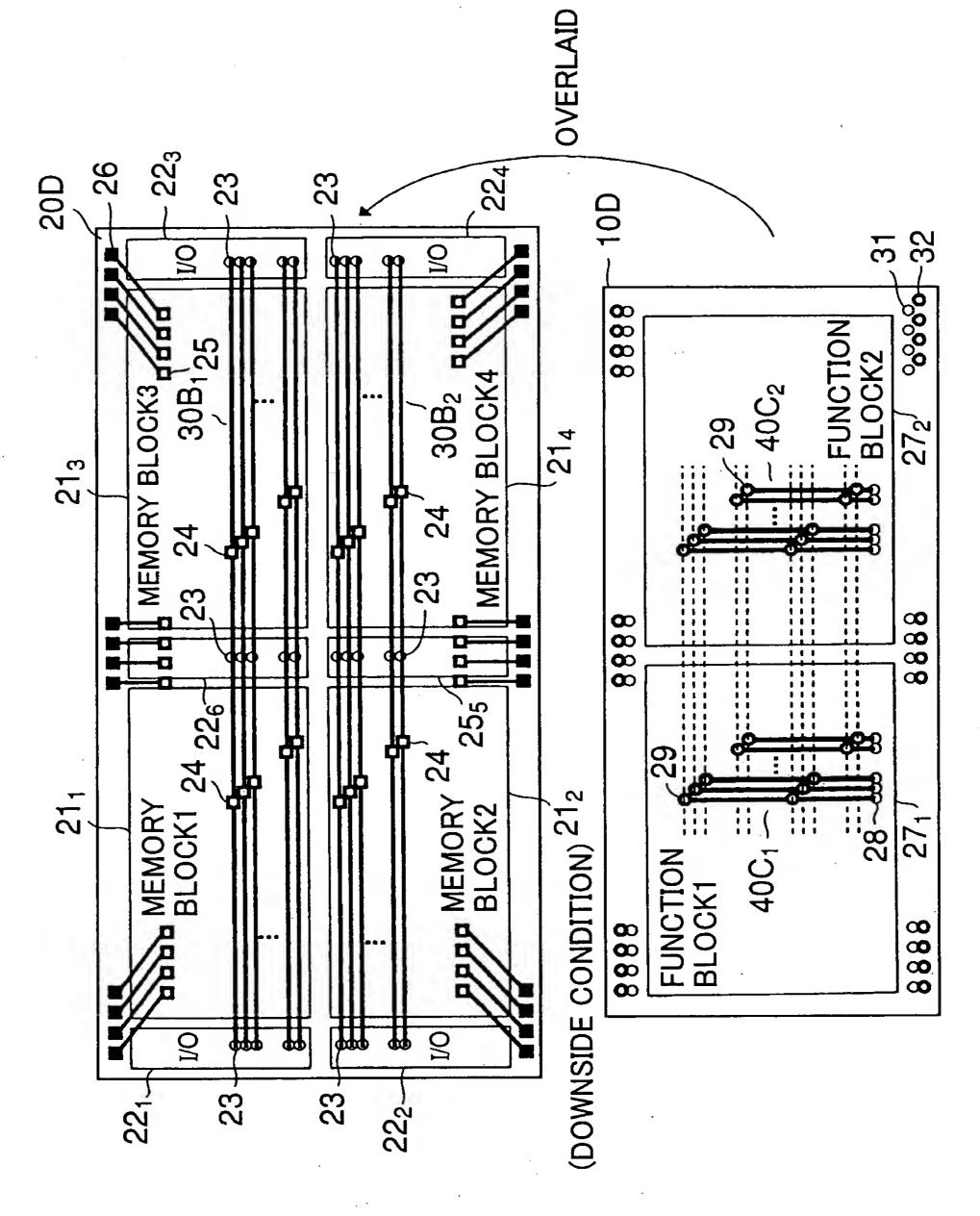


FIG.17

FIG. 18



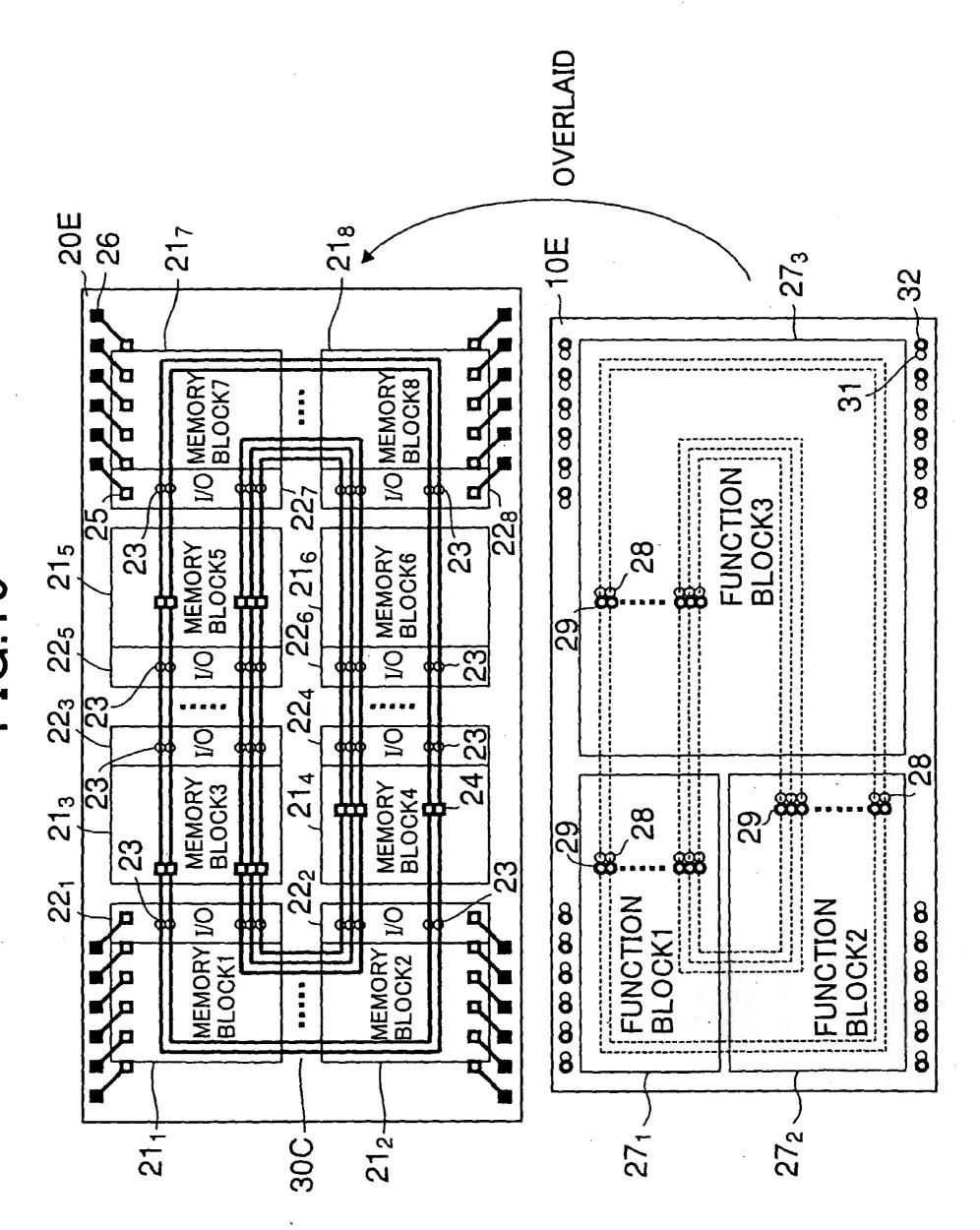
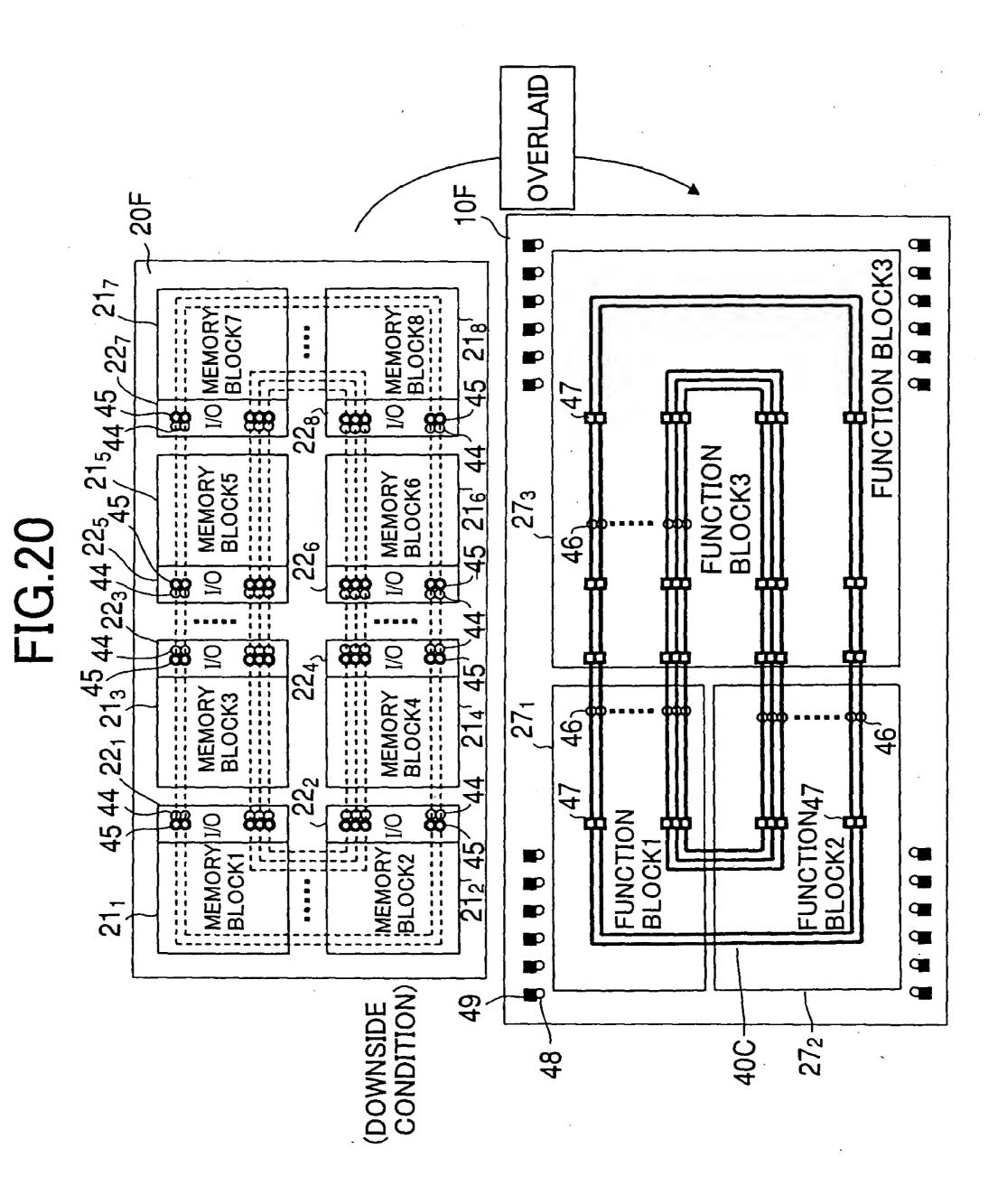


FIG.19



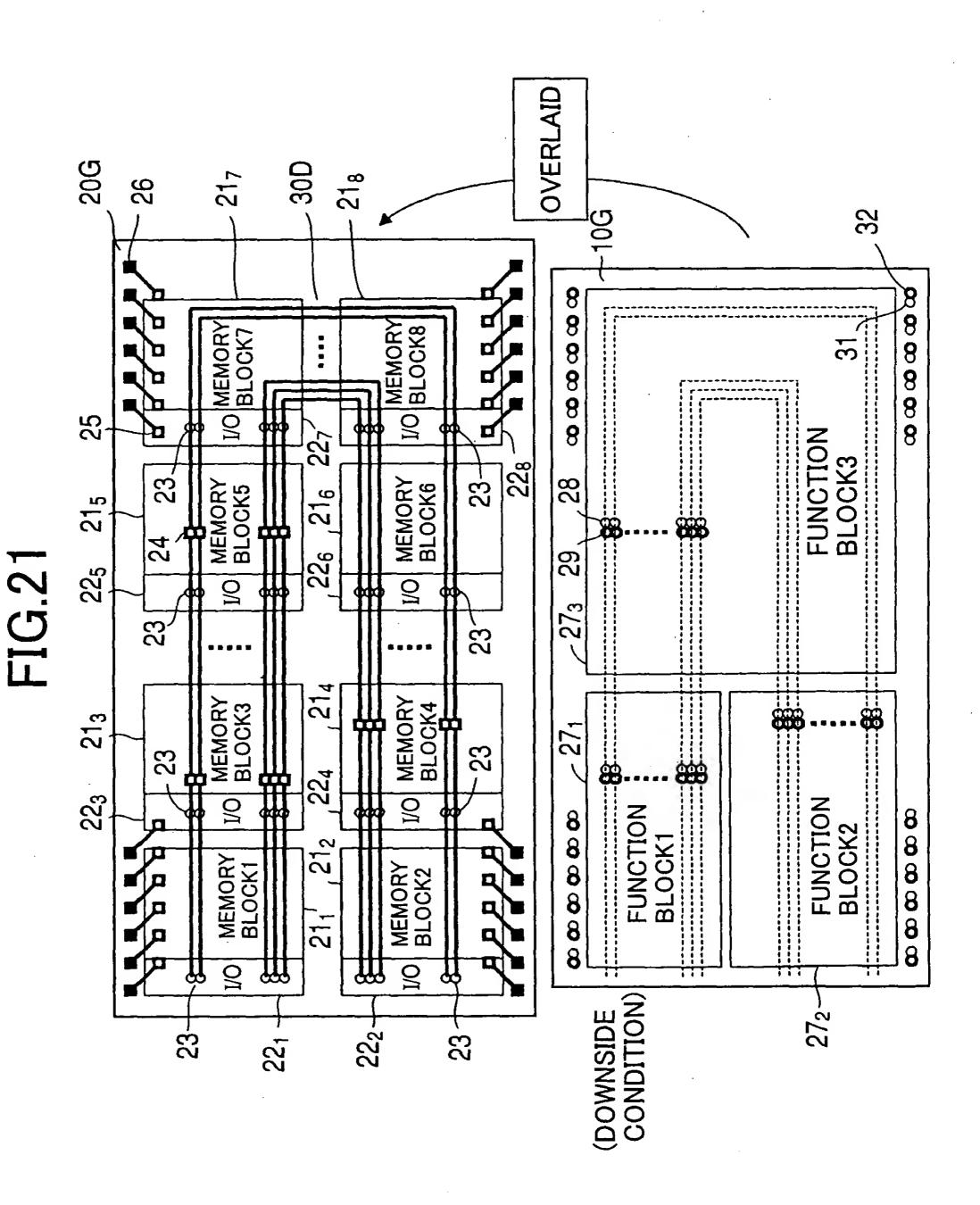


FIG.22

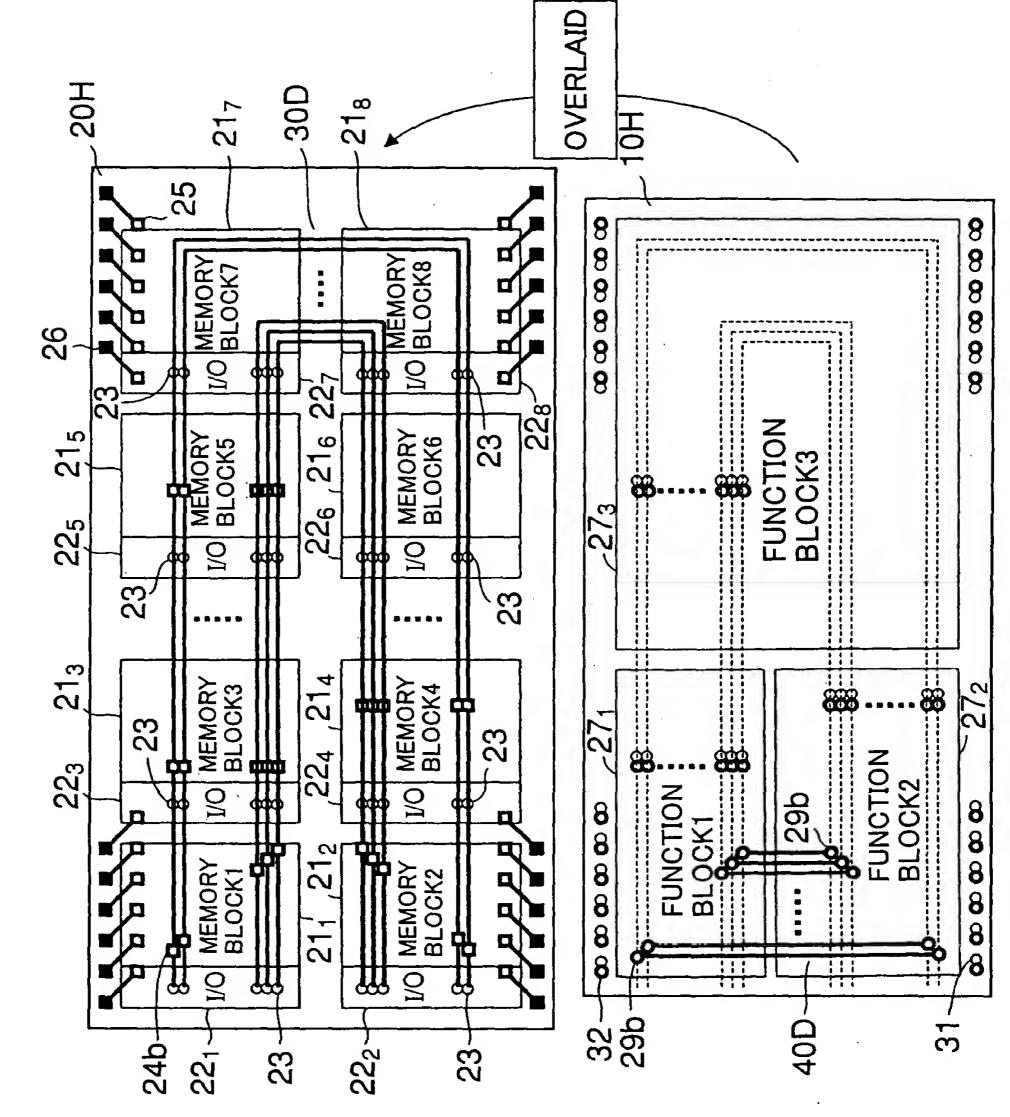
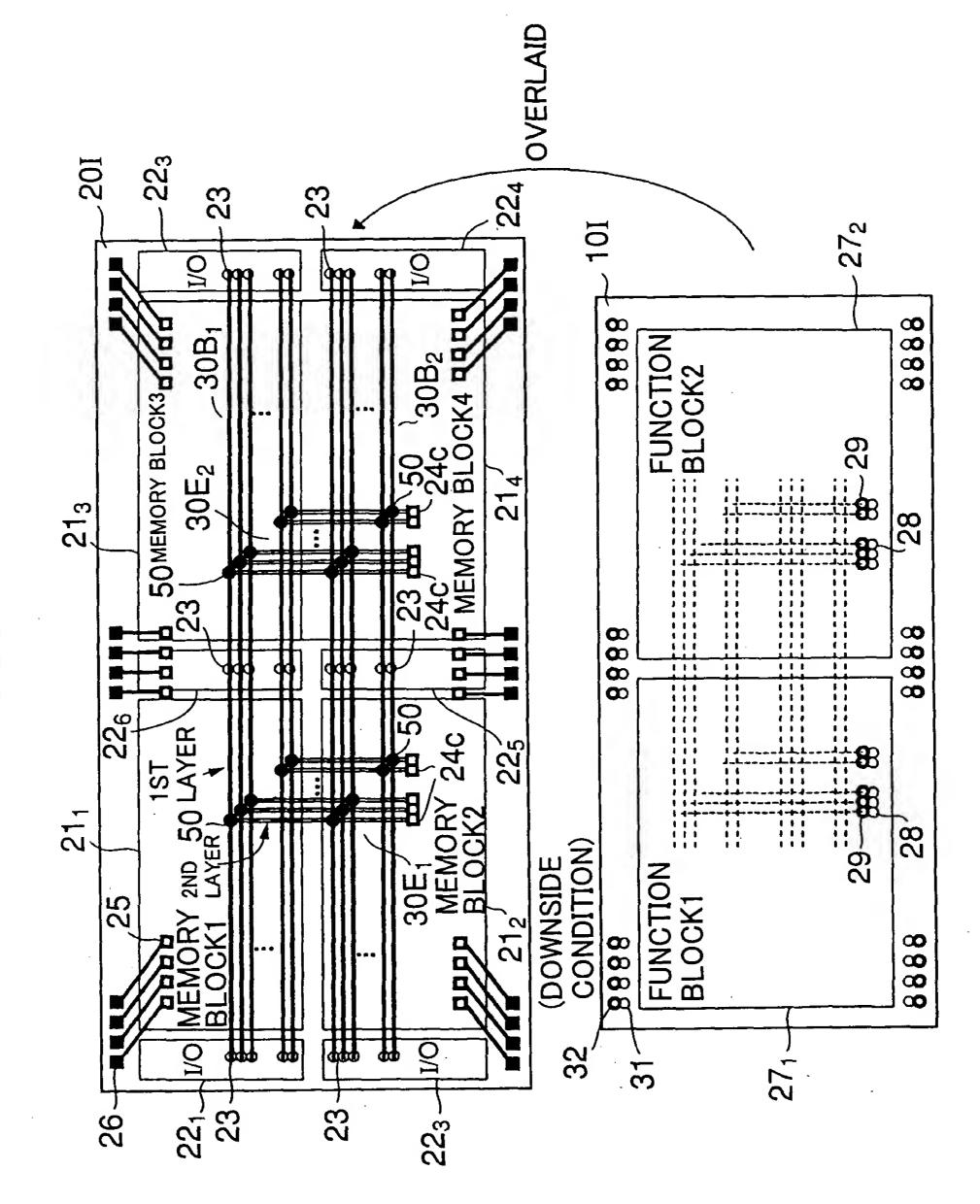


FIG.23



F16.24

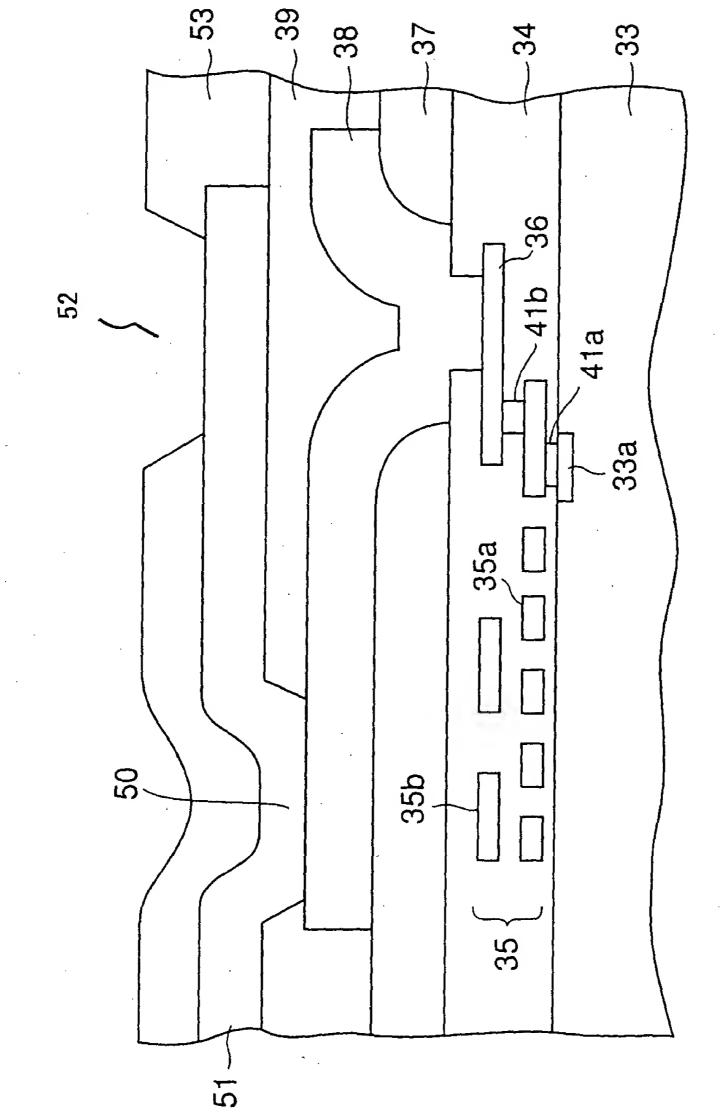
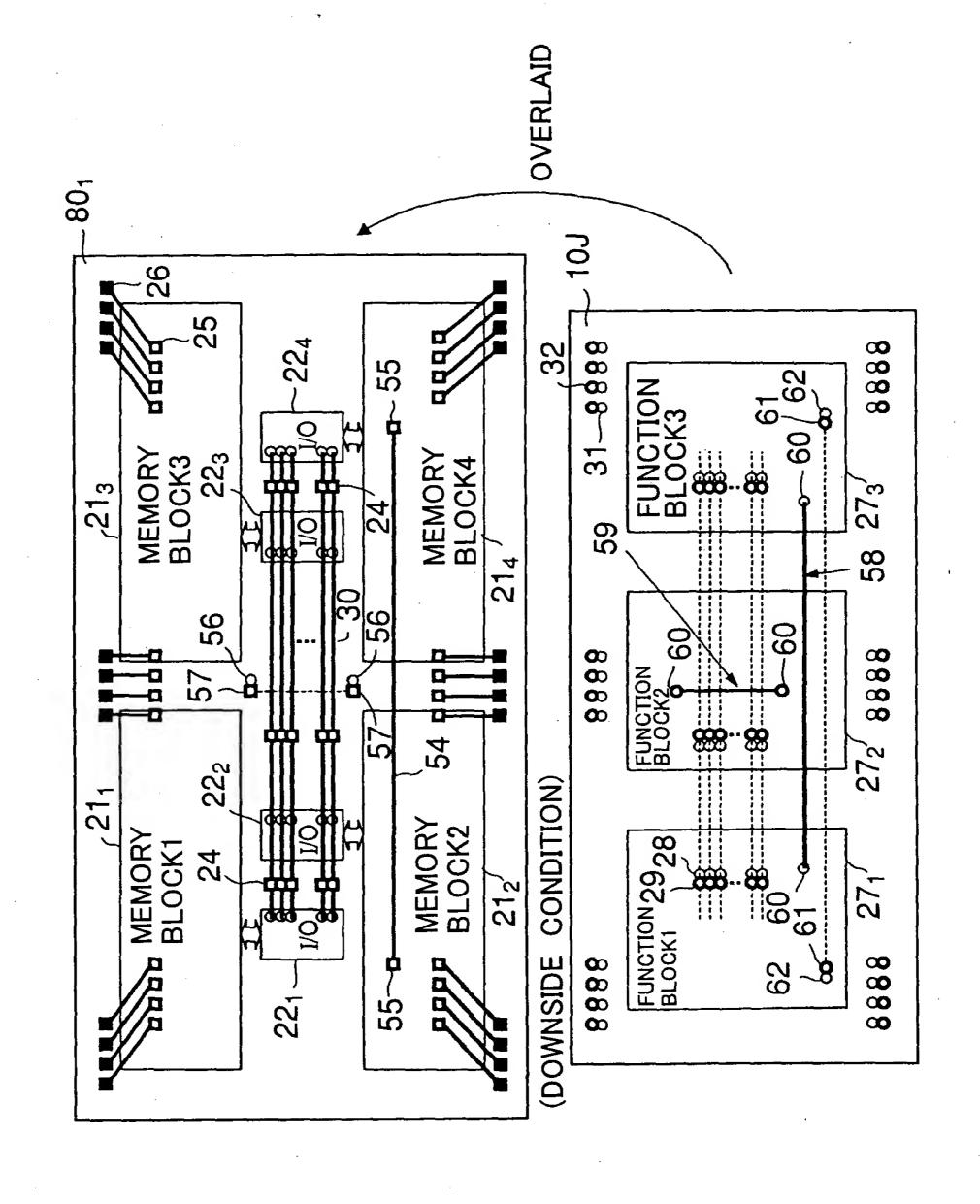
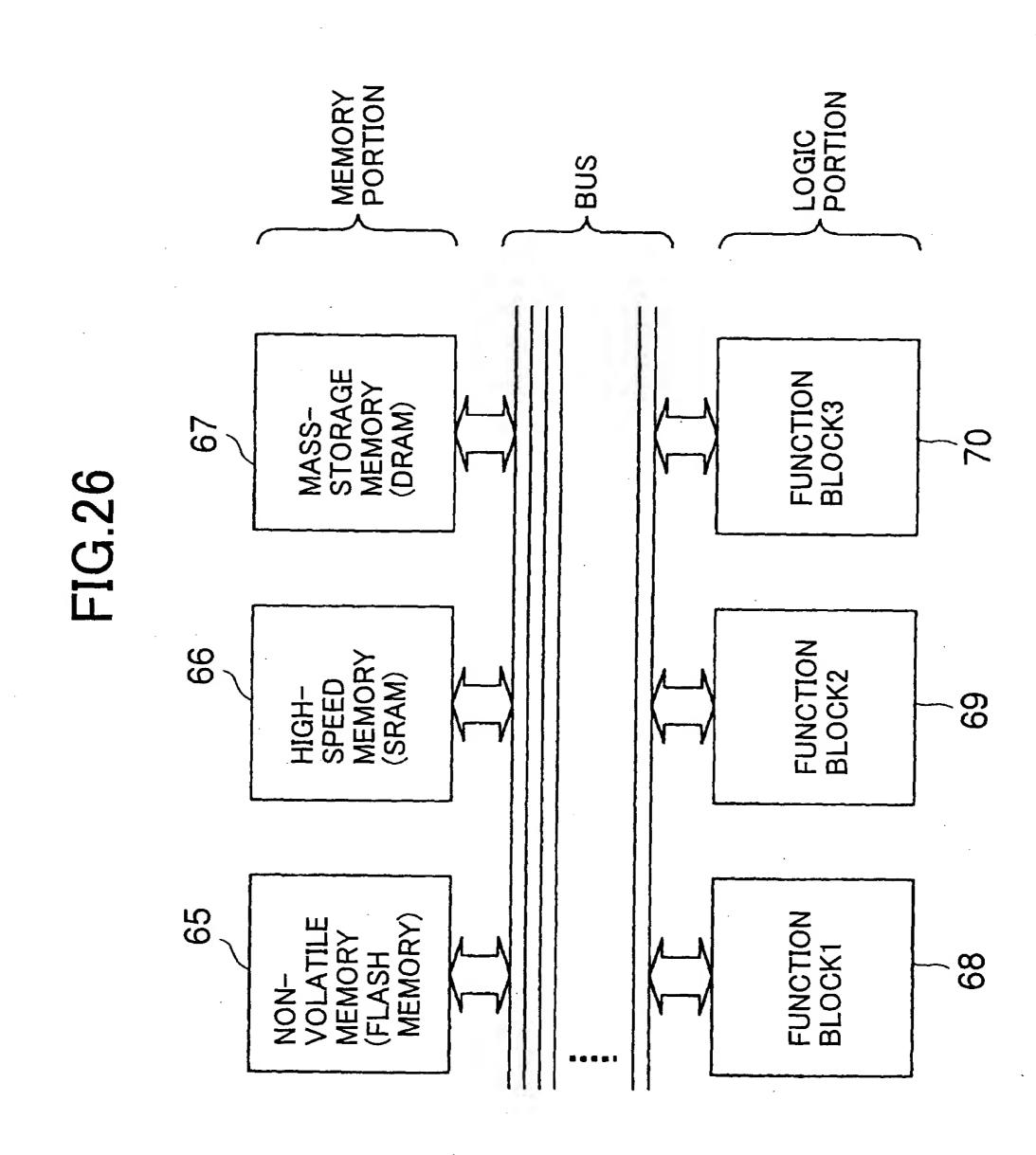


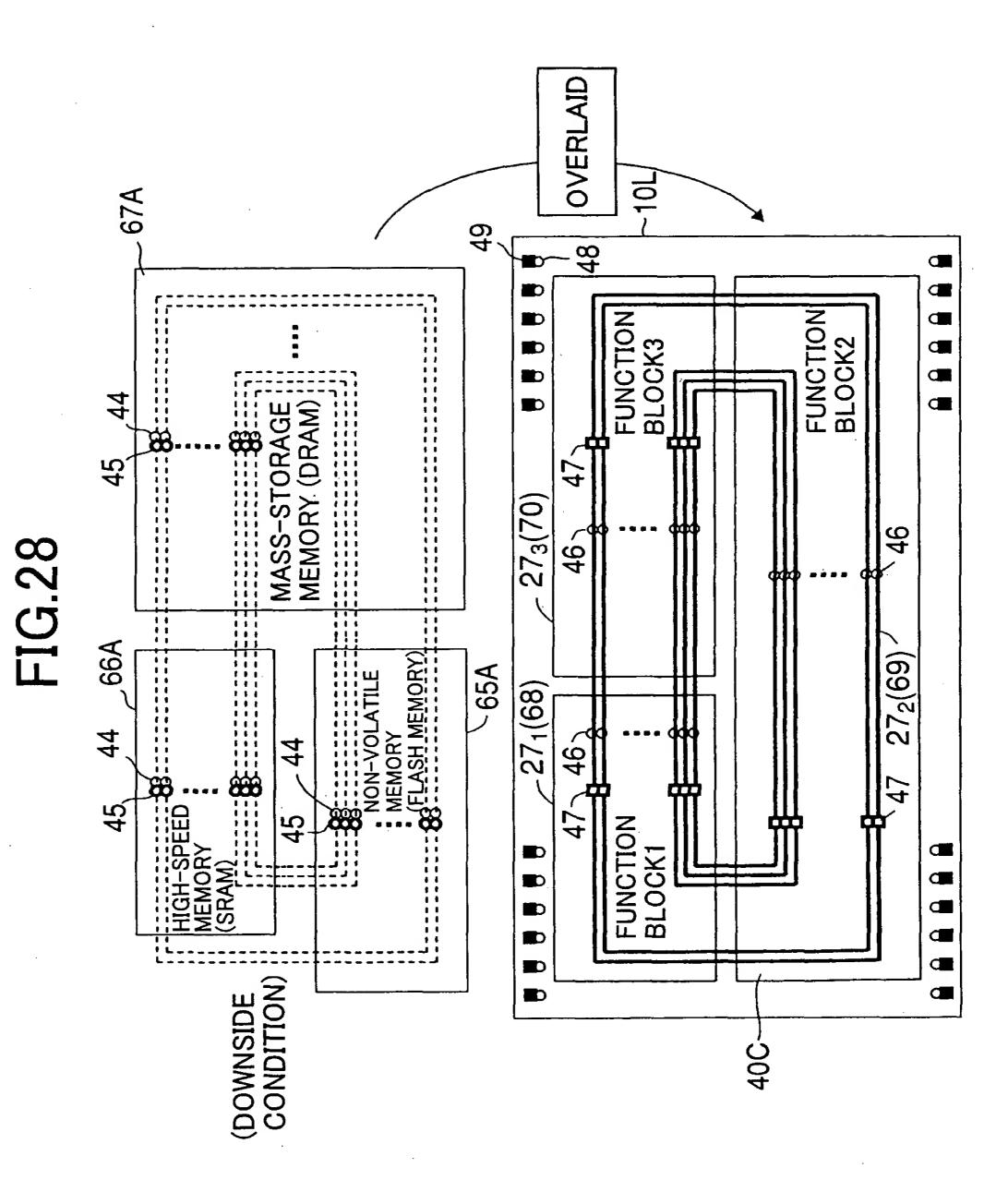
FIG.25

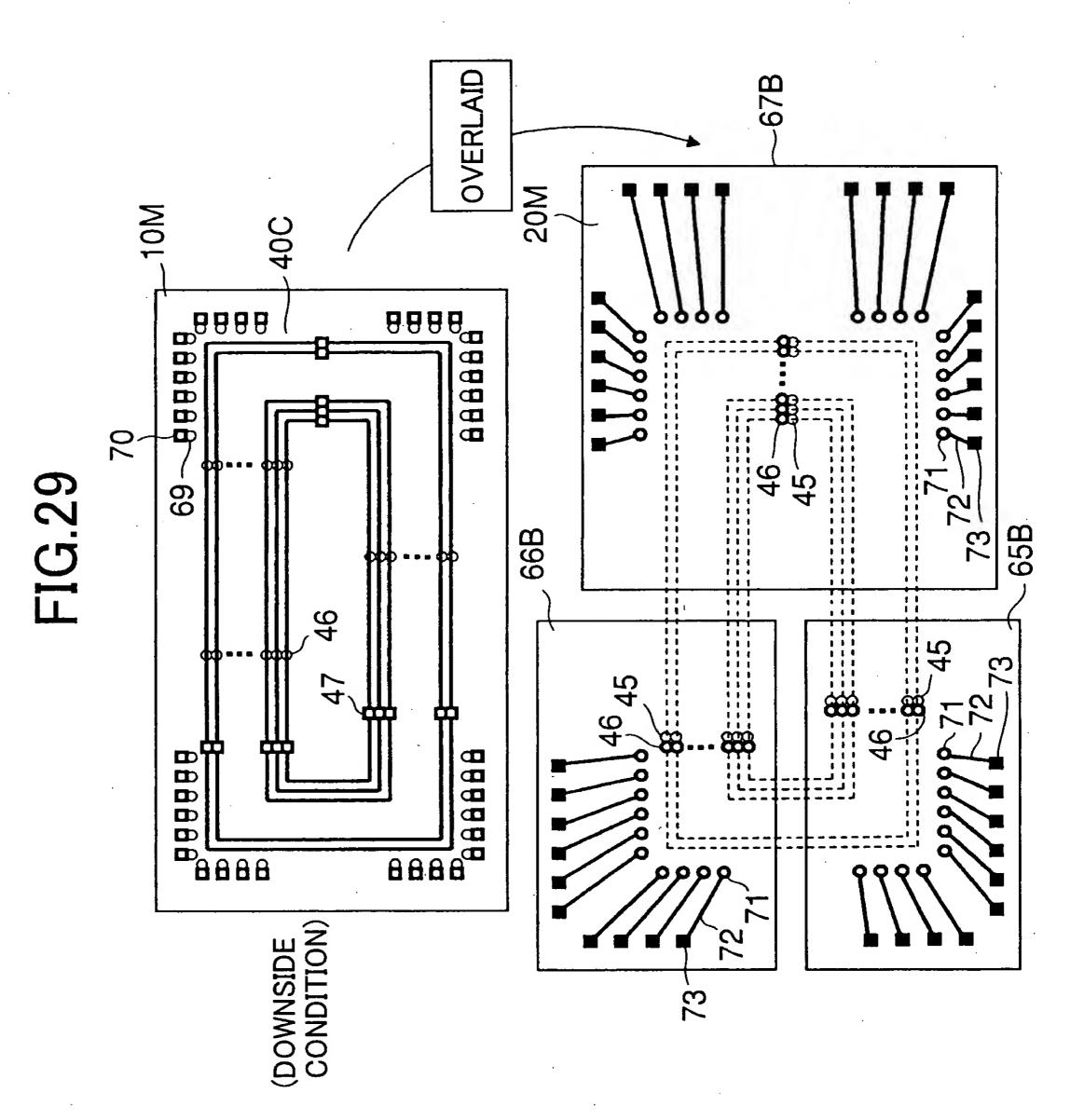




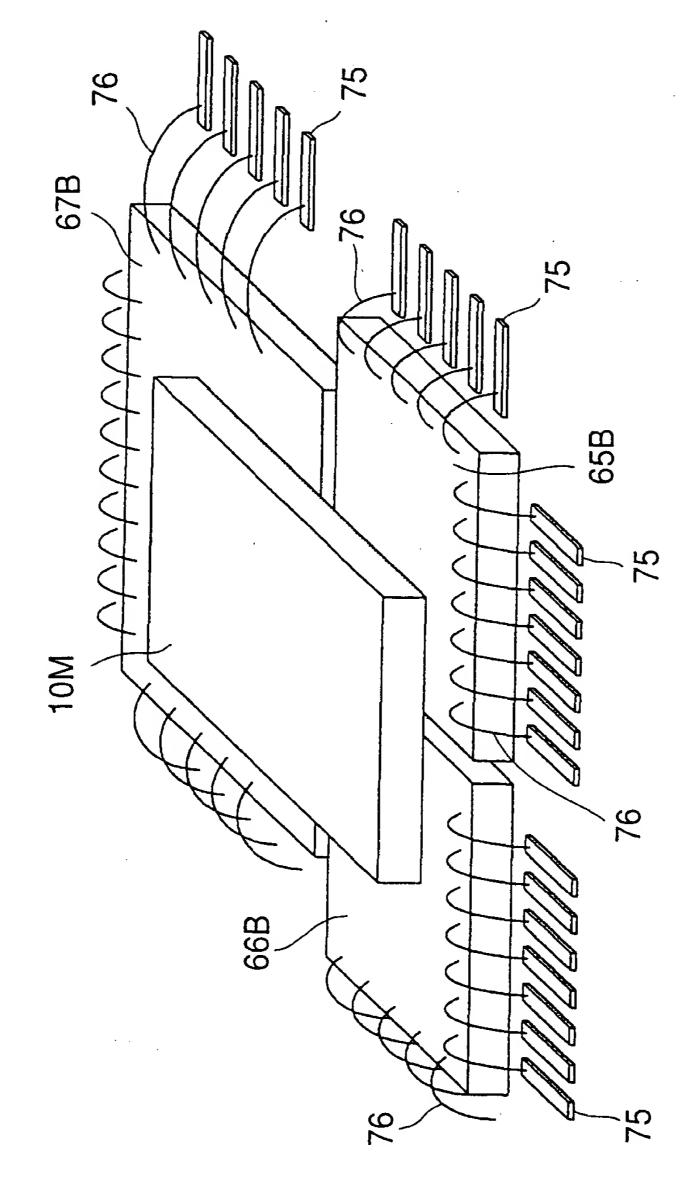
10K OVERLAID 273(70) 20K 30D 32 26  $\infty \infty \infty \infty \infty \infty \infty$  $\infty$ MASS-STORAGE MEMORY (DRAM) 31 23 25 - 0 FUNCTION BLOCK3 28 24 <u>1</u>9 65 TILE MEMORY 272(69) 154 124 24 271(68 99 -NON-VOLATILE ME (FLASH MEMORY) MEMORY (SRAM) 83 23 FUNCTION BLOCK1 FUNCTION BLOCK2 HIGH-SPEE 888888 (DOWNSIDE CONDITION)

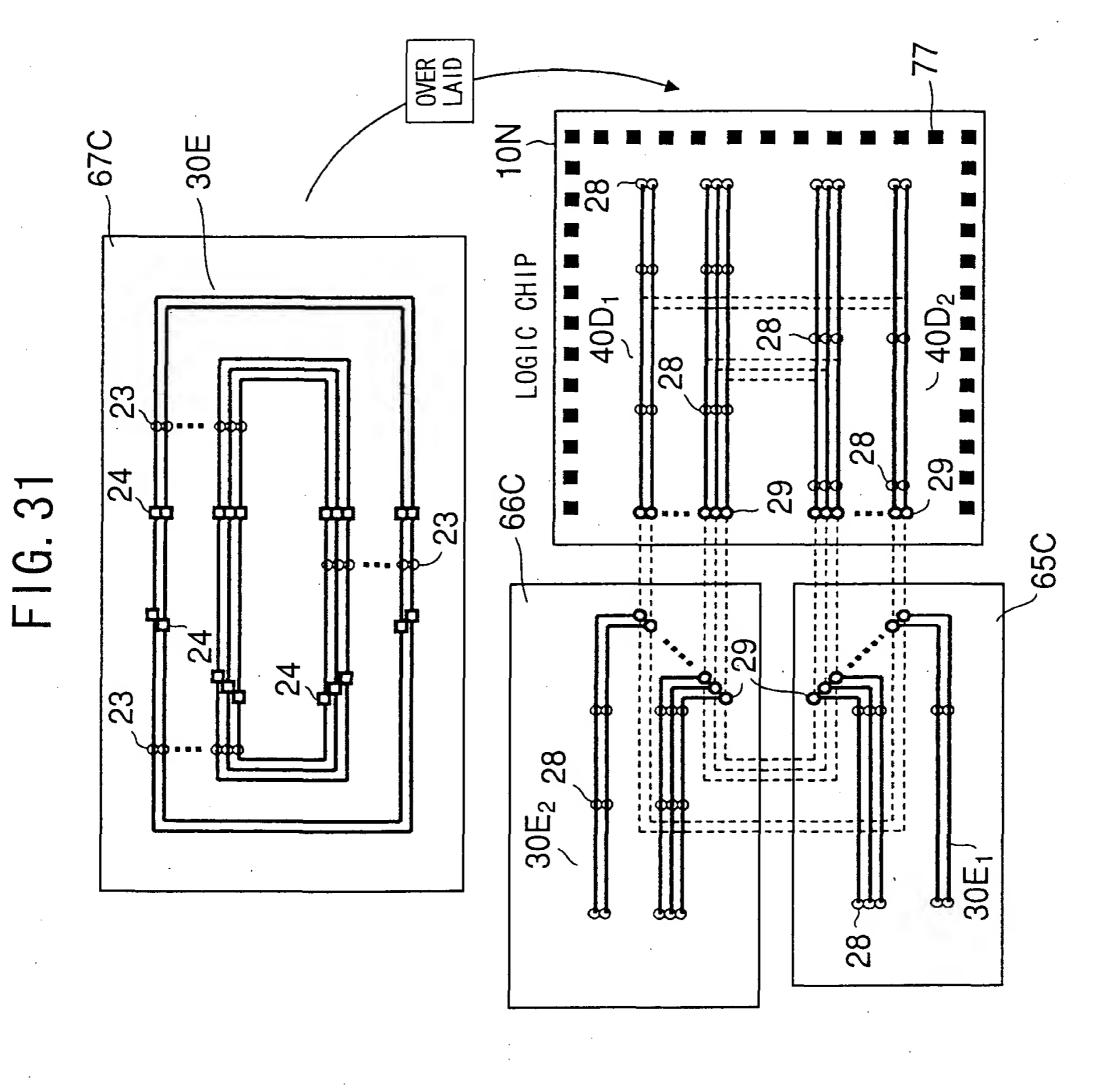
FIG.27

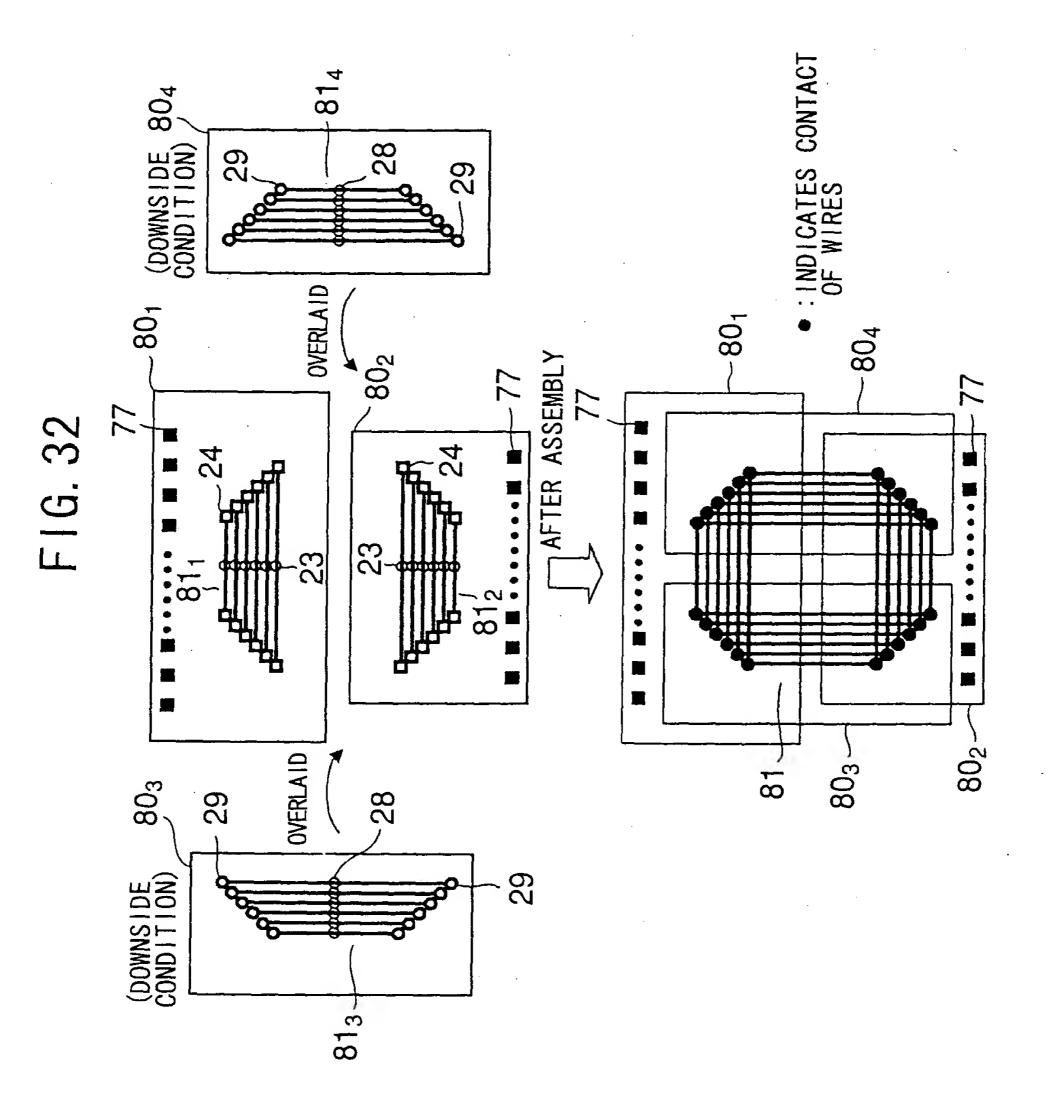




F1G. 30







F16.33

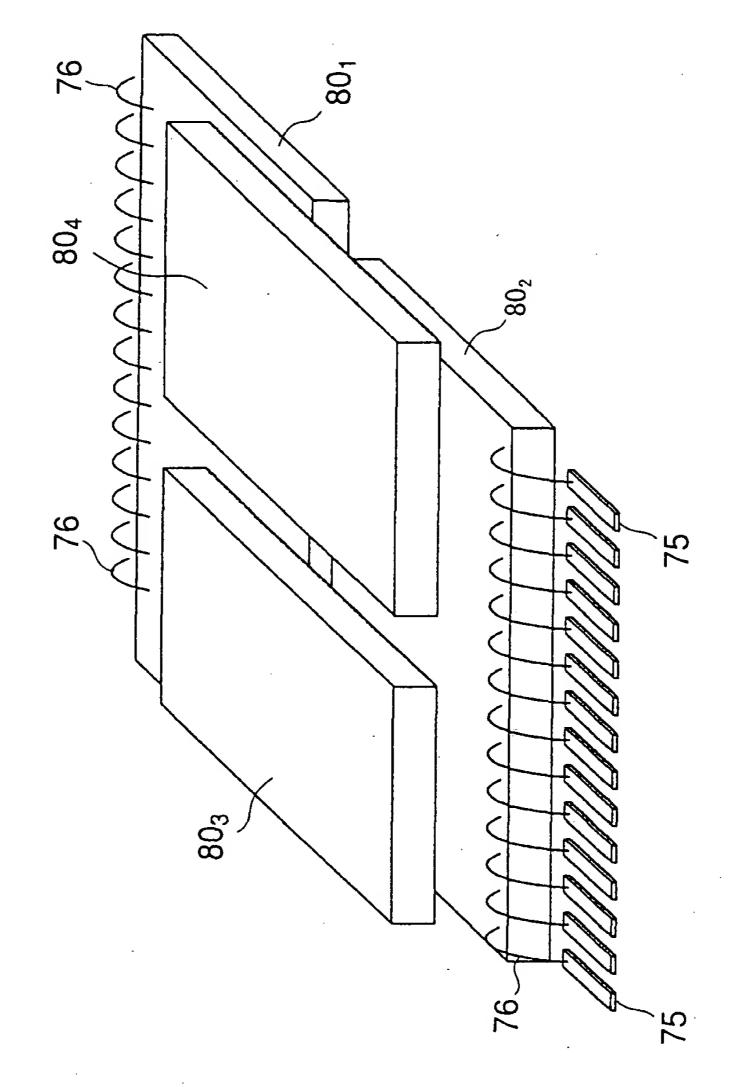
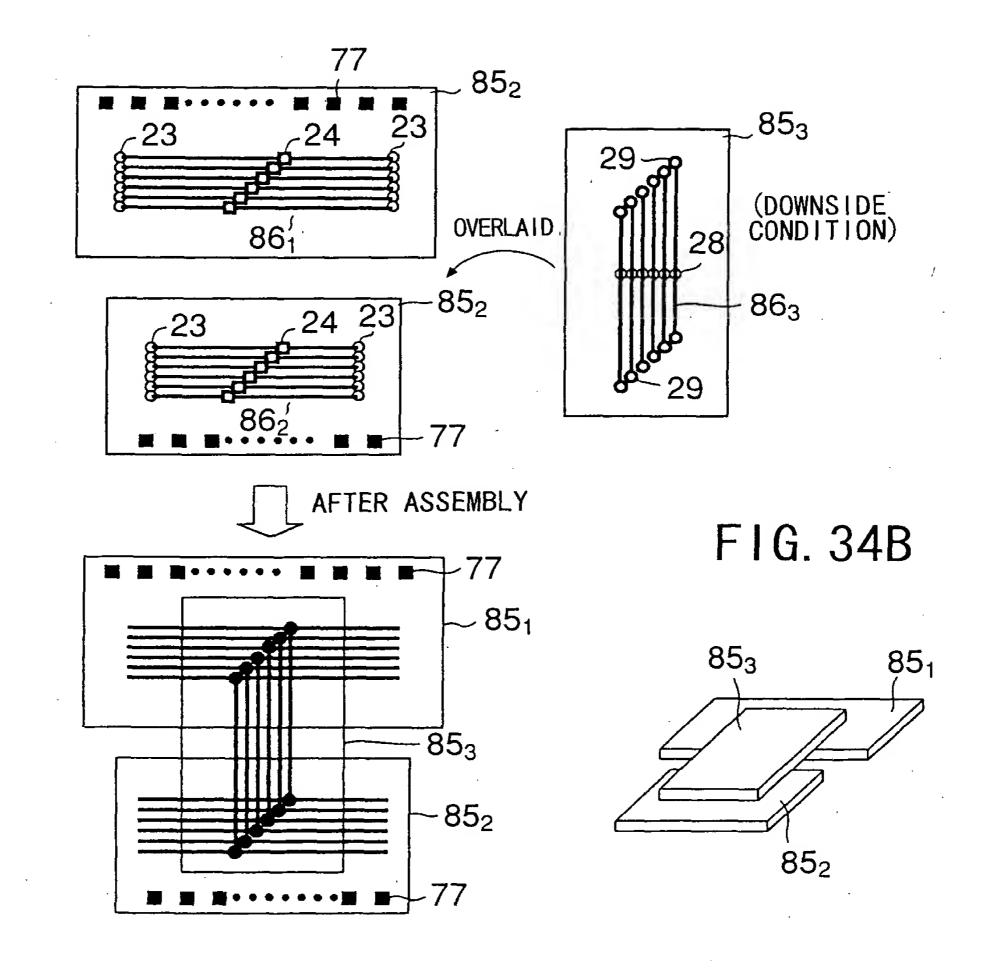
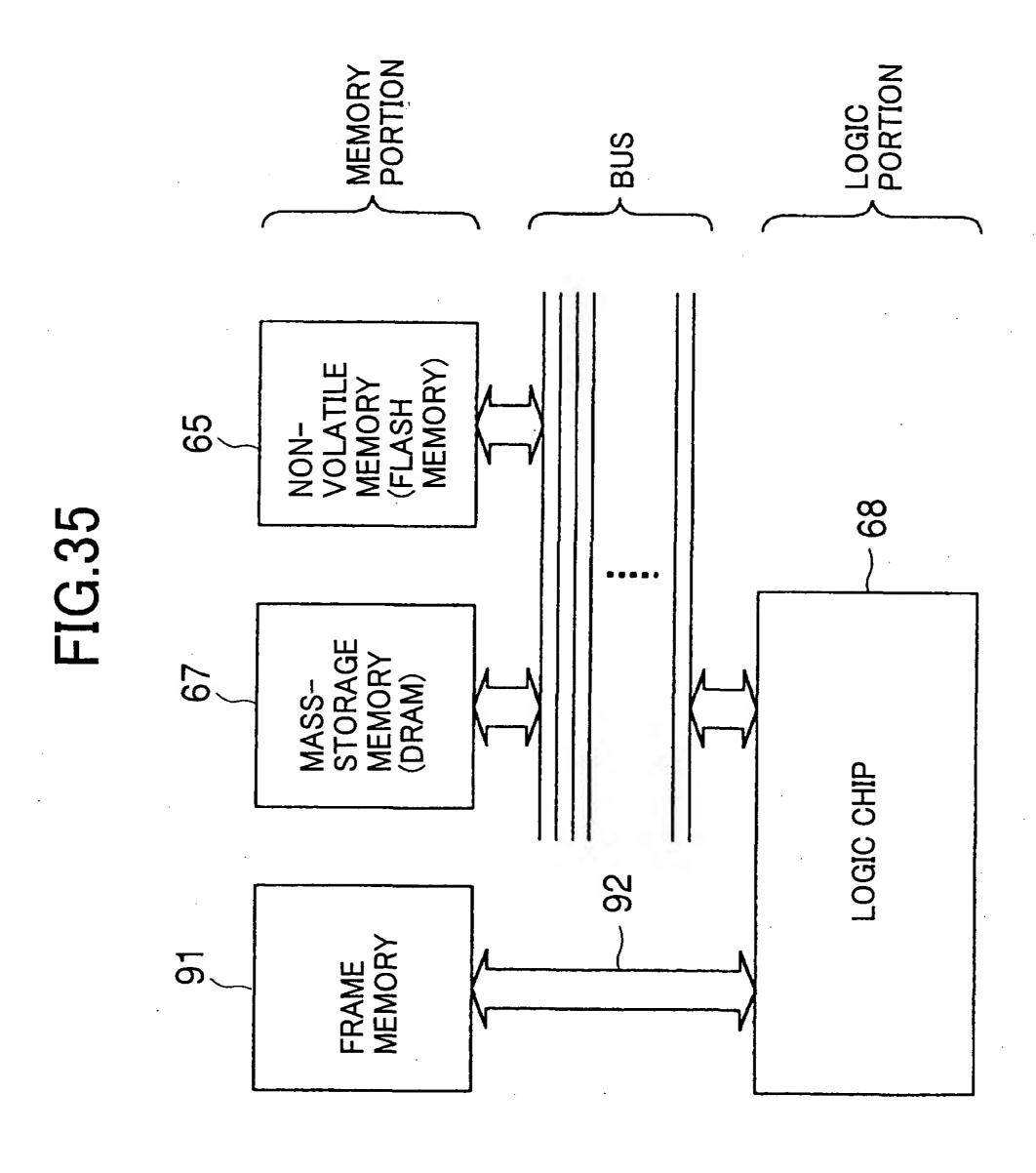
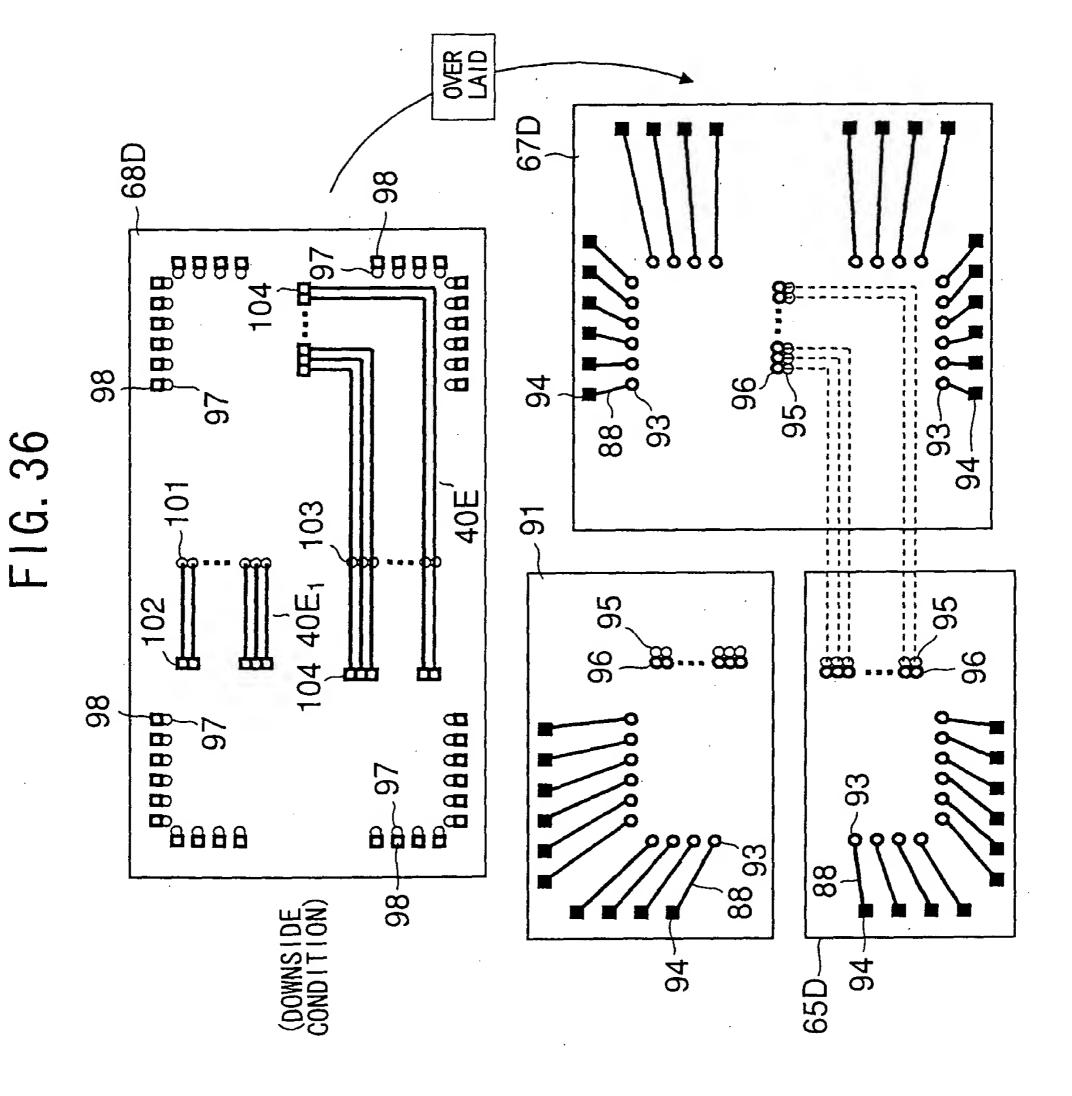


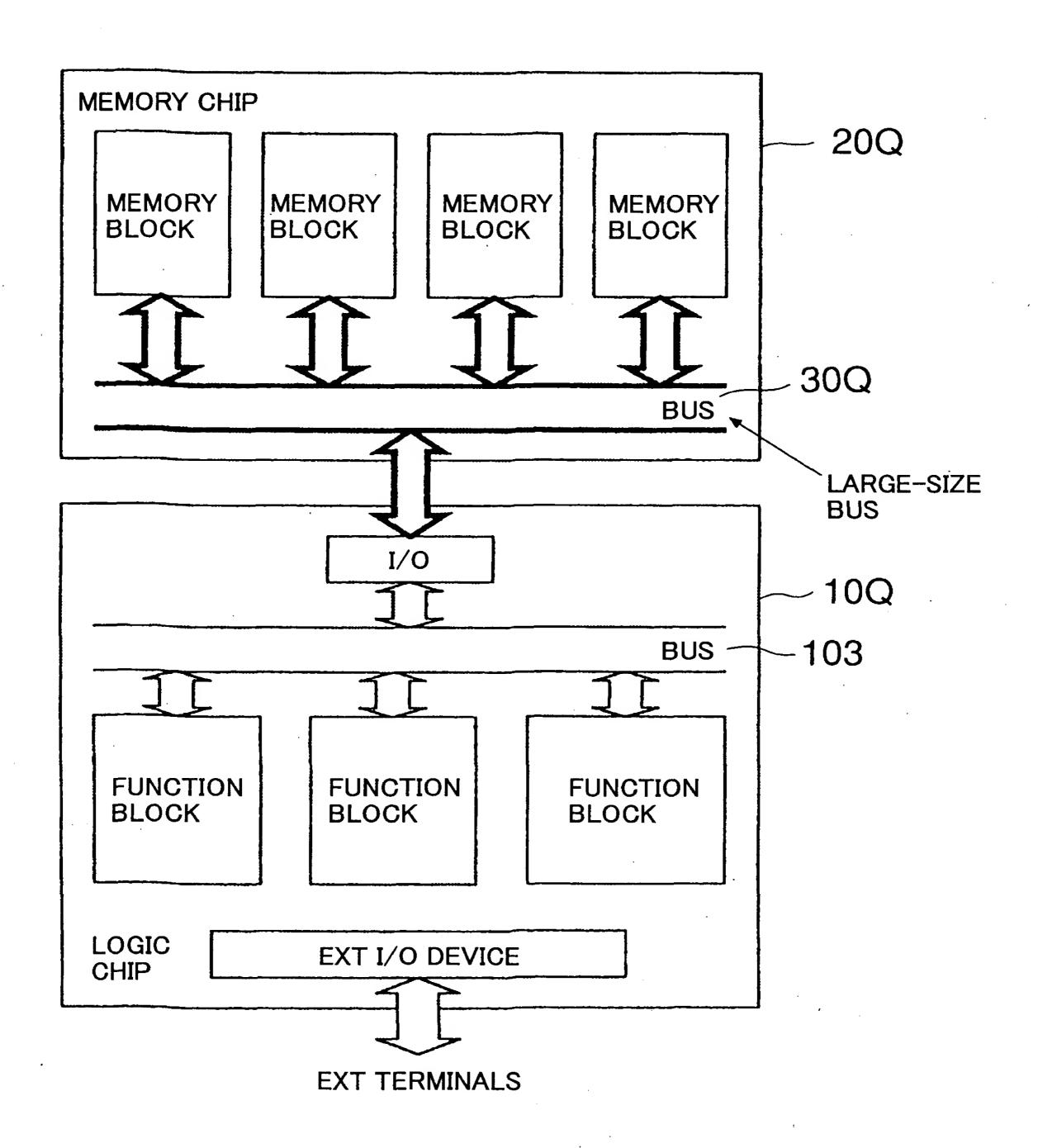
FIG. 34A



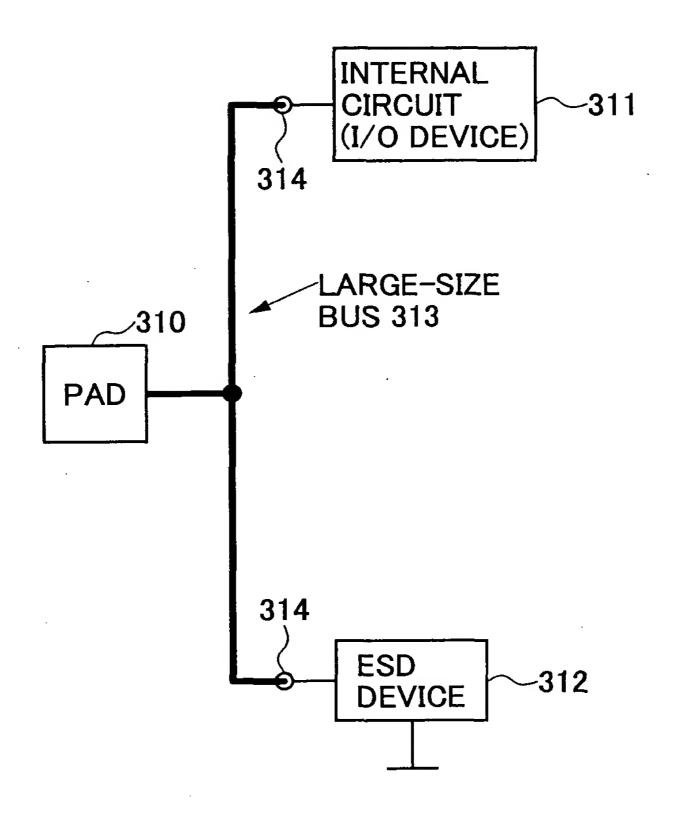




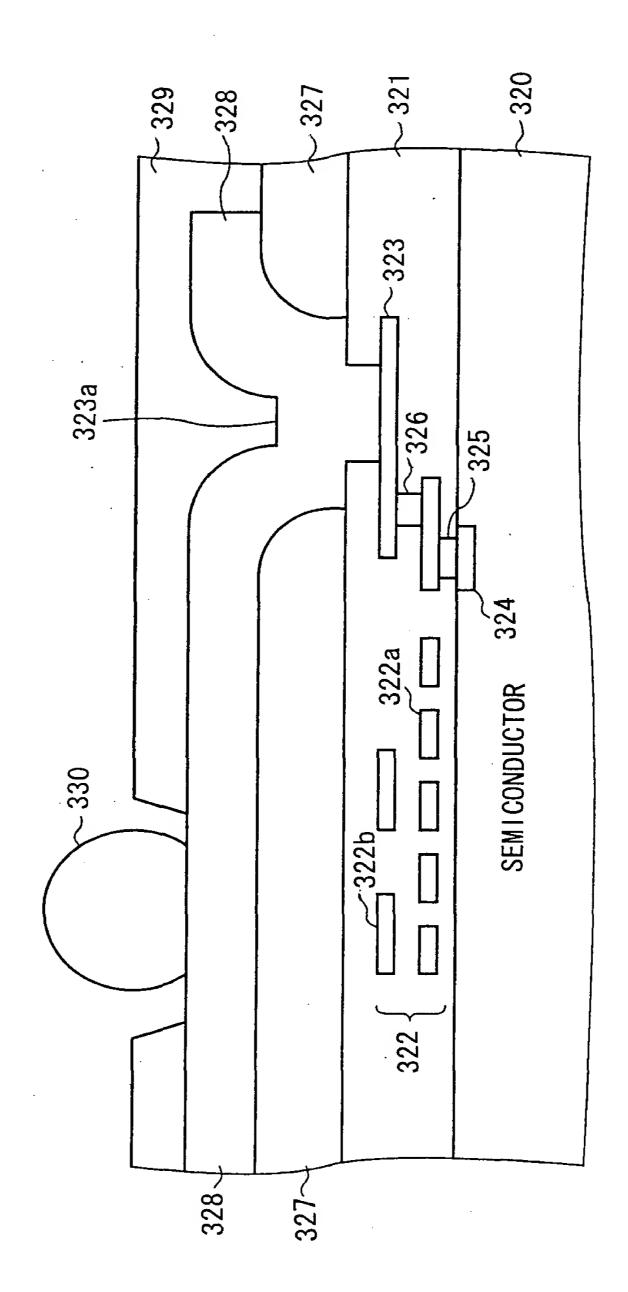
**FIG.37** 



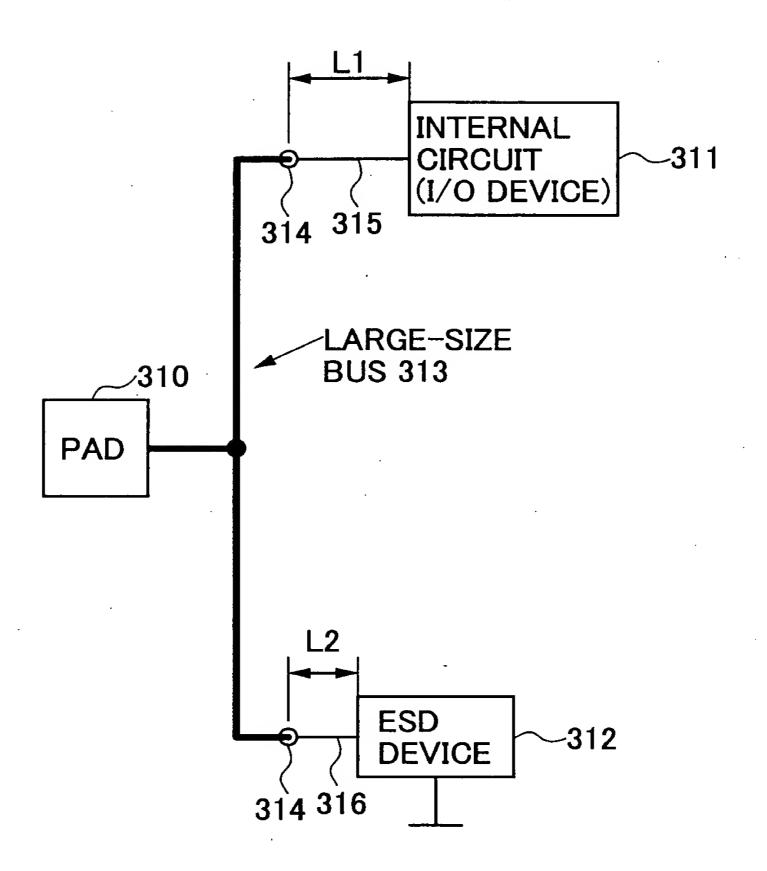
**FIG.38** 



F16.39



**FIG.40** 



**FIG.41** 

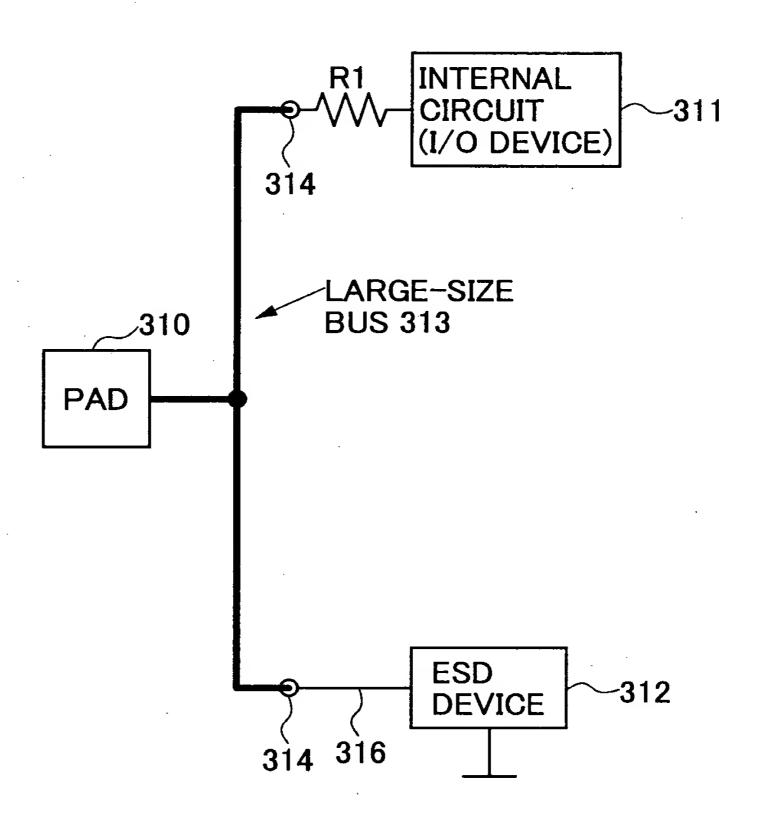
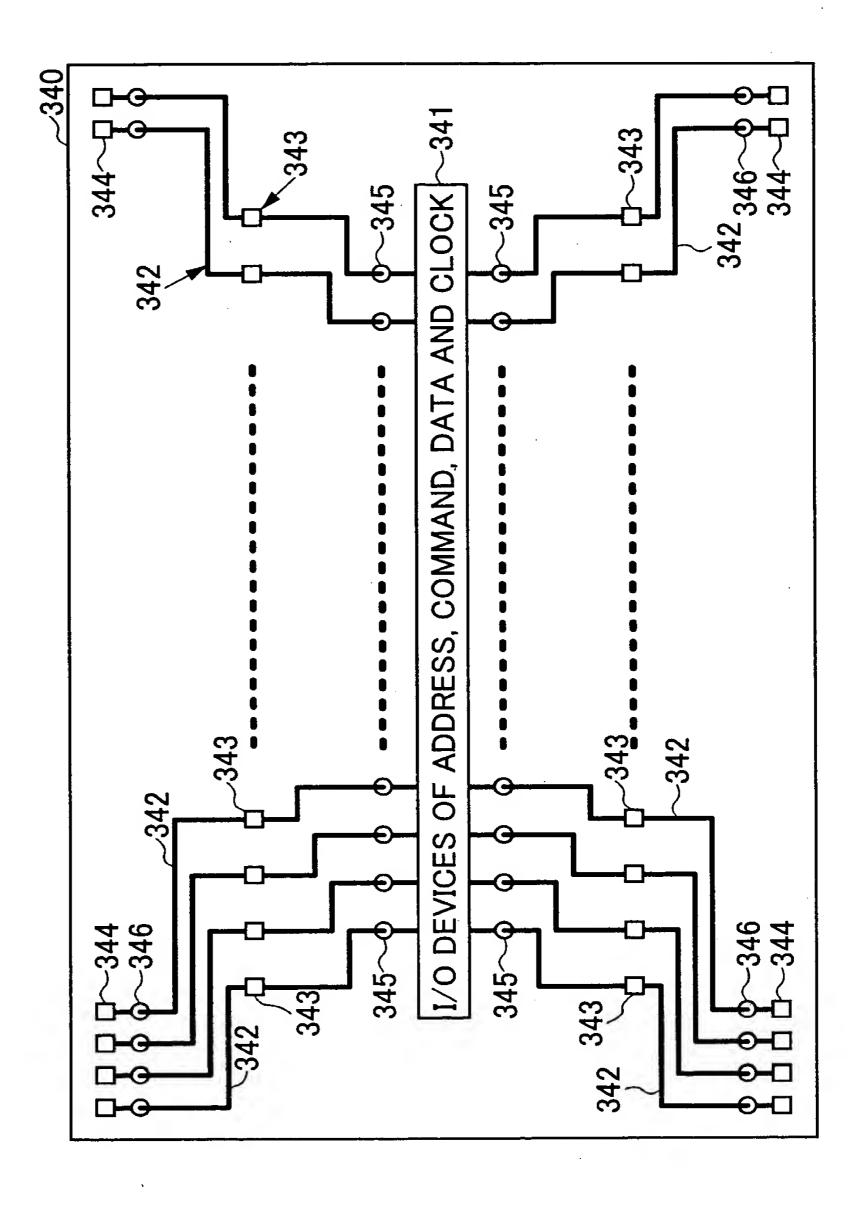
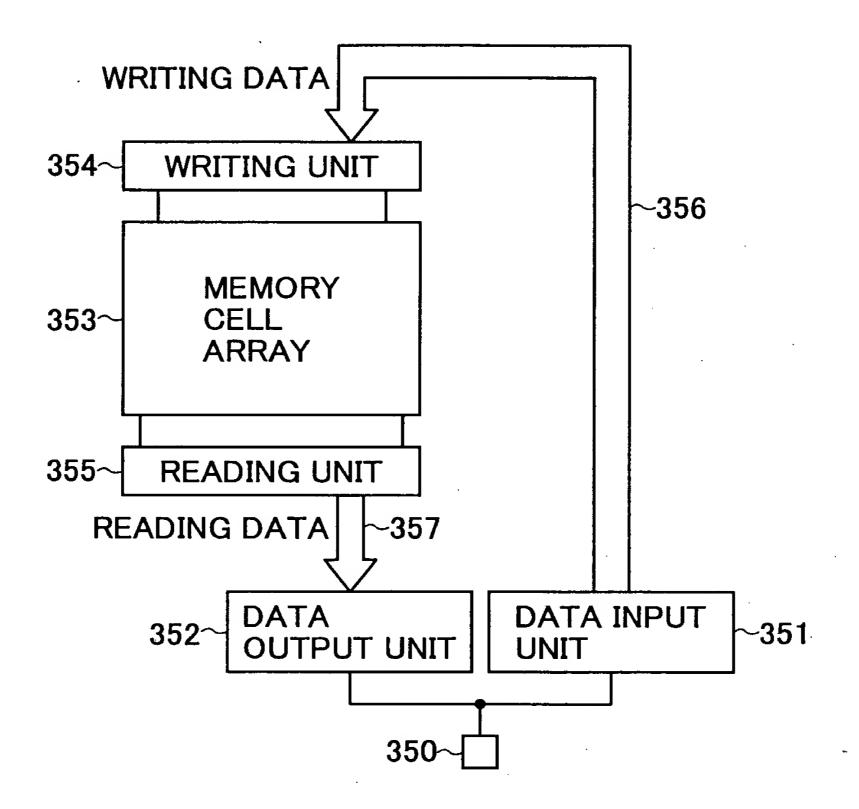


FIG.42



**FIG.43** 



## FIG.44A

## FIG.44B

